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1901-02

OKLAHOMA
AGRICULTURAL AND
MECHANICAL COLLEGE

CATALOGUE, 1901--02

OKLAHOMA

AGRICULTURAL AND

MECHANICAL COLLEGE

ANNUAL CATALOGUE, 1901--02
WITH ANNOUNCEMENTS FOR 1902--03

STILLWATER, OKLAHOMA.

EXCHANGE IS DESIRED

COLLEGE PRESS

COLLEGE CALENDAR, 1902--03.

Entrance Examinations, September 8-9.

Fall Term begins September 10; closes December 17.

Winter Term begins December 31; closes March 21.

Spring Term begins March 25; closes June 3.

Short Winter Courses begin January 6; close February 27.

The usual holidays at Thanksgiving, Christmas, Oklahoma Day,
and Decoration Day.

Wednesday, September 10, will be devoted to the registration
of students.

BOARD OF REGENTS.

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EXPERIMENT STATION STAFF.

THE PRESIDENT OF THE COLLEGE

JOHN FIELDS, B. S.....	Director and Chemist
L. L. LEWIS, M. S., D. V. M.....	Veterinarian
F. C. BURTIS, M. S.....	Agriculturist
O. M. MORRIS, B. S.....	Horticulturist
W. R. SHAW, Ph. D.....	Botanist and Entomologist
A. B. McREYNOLDS, B. S.....	Assistant in Chemistry
J. S. MALONE, B. S.....	Assistant in Agriculture
H. M. HAND.....	Clerk
GEORGINA M. HOLT.....	Stenographer

FACULTY.

ANGELO C. SCOTT, M. A., LL. M.

President, and Professor of the English Language and Literature.

GEO. L. HOLTER, B. S.

Professor of Chemistry and Metallurgy.

LOWERY L. LEWIS, M. S., D. V. M.

Professor of Zoology and Veterinary Science.

JOHN FIELDS, B. S.

Director of Experiment Station, and Station Chemist; Dean of Short Courses.

RICHARD E. CHANDLER, M. M. E.

Professor of Mechanical and Mining Engineering and Physics.

JAMES W. MEANS

Professor of Mathematics.

FRANK C. BURTIS, M. S.

Professor of Agriculture.

FRANK A. HUTTO, B. S., Ph. B.

Professor of History and Political Science, and Librarian.

WALTER R. SHAW, Ph. D.

Professor of Botany and Entomology, and Geology.

M. MAUD GARDINER, B. S.

Professor of Domestic Science.

ROBERT H. TUCKER, M. A.

Professor of German and Latin; Associate in English.

GEORGE W. STEVENS, B. A.

Principal Preparatory Department.

MAY OVERSTREET

Assistant in Preparatory Department.

OSCAR M. MORRIS, B. S.

Instructor in Horticulture.

ARTHUR B. McREYNOLDS, B. S.

Assistant Station Chemist.

JOHN S. MALONE, B. S.

Assistant in Agriculture.

ADOLPH E. SHANE, B. S.

Assistant in Mechanical Engineering.

GEORGE K. HOWE, B. S.

Instructor in Physics and Mathematics.

MAURICE MULVANIA, B. A., B. D.

Assistant in Zoology and Veterinary Science.

LEONARD P. MORGAN, B. S.

Laboratory Assistant in Chemistry.

GEORGINA M. HOLT

Instructor in Stenography and Typewriting, and Official Stenographer.

GEORGE B. GELDER

Superintendent of Printing Department, and Instructor in Printing.

CORA MILTIMORE, B. S.

Assistant Librarian.

HENRY M. HAND

Secretary.

FOUNDING AND HISTORY.

HISTORICAL

An act of congress, approved July 2, 1862, gave to each state which accepted its provisions within two years 30,000 acres of government land for each one of its representatives in congress, the proceeds to be applied to the endowment and maintenance of the agricultural, or as Senator Morrill, the author of the act, preferred to call them, the "national" colleges.

A subsequent act, approved August 10, 1890, extended the endowment of these institutions by an appropriation of \$15,000 a year, increasing each year by the sum of \$1,000 until the annual amount should be \$25,000. This limit was therefore reached in 1900.

On March 7, 1887, an act of congress was approved, appropriating annually to colleges thus established \$15,000, for the maintenance of experiment stations "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science".

This institution receives the benefit of the last two acts of congress only. By an act of the legislative assembly of Oklahoma which took effect December 25, 1890, the provisions of these acts were assented to, and the College and Experiment Station located at Stillwater, in Payne County. The institution opened in the fall of 1891.

SCOPE OF WORK.

It has been said above that this institution does not receive the benefit of the act of 1862. In order, however, to understand clearly the scope of work contemplated in these institutions the language of both acts should be quoted. The act of 1862 makes its grant for "the endowment, support, and maintenance of at least one college, where the leading object shall be, without excluding the other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts,

in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life". The appropriation under the act of 1890 is to be applied "only to instruction in agriculture, the mechanic arts, and the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application in the industries of life, and to the facilities for such instruction."

From these two expressions of the legislative purpose it will be seen that the popular impression that the courses of study in these institutions are narrowly confined within the limits marked by the two words "agricultural" and "mechanical", is erroneous. While special facilities are provided, and special instruction given, in agriculture and its branches, and in the mechanic arts, it is quite within the province of this institution to give specialized training in biology, in chemistry, in political science, in domestic science, in commercial lines, in the English language and literature. Even this liberal limitation may be extended within reasonable bounds—determined in accordance with the general nature of the institution—by the territory, insofar as it chooses to pay for the additional instruction. In a word the law contemplates the providing, through these institutions, of a "liberal and practical" education. It does not lose sight of the inspiration of the higher learning, but it has particularly in view the equipping of the student for efficiency in the activities of life.

Our several courses of instruction, as set out in subsequent pages, will be seen to be arranged upon this conception of the scope of our work.

RESOURCES.

MORRILL FUND The Oklahoma Agricultural and Mechanical College receives from the government every year the sum of \$22,500. This is the \$25,000 "Morrill Fund" above referred to, less \$2,500 set apart from it by the territorial legislature for the benefit of the Agricultural and Normal University at Langston. It is to be expended for instruction and appli-

ances only, the territory of Oklahoma providing buildings, repairs, etc.

HATCH FUND The Agricultural Experiment Station, which is a department of the college, receives from the United States government an annual appropriation of \$15,000, to be used solely for experimentation and the publication of results. This is known as the "Hatch Fund".

TERRITORIAL TAX LEVY The territorial law provides for the annual levy of one-tenth mill on the taxable property of the territory for the benefit of the college. This on present valuations, reaches about \$5,500.

LAND LEASE MONEY The law also sets apart one-fifth of the income derived from the rental of the lands granted to the territory for the benefit of the institutions of higher learning. This amounts to about \$7,500 a year.

OTHER SOURCES There are other slight sources of income, not necessary to detail here, which raise the total annual income of the college and station to about \$53,000.

BUILDING APPROPRIATION The last legislature provided special levies on the taxable property of the territory for the purpose of erecting additional buildings for the college, which will aggregate about \$47,000 during the two years ending June 30, 1903.

EQUIPMENT.

GROUND AND BUILDINGS The college campus and experiment station grounds occupy 200 acres of land. At the opening of the next academic year, September, 1902, four chief buildings and four minor buildings will be used for purposes of instruction. Since the last catalogue was issued the following additions have been made to the building equipment: An auditorium with present seating capacity of eight hundred, ultimate capacity of twelve hundred; quarters for the department of Domestic Economy; quarters for the department of Botany and Entomology; building for the department of Mechanical Engineering; and a barn for the college farm, more fully referred to elsewhere.

LIBRARY

The college has a well selected library of 8,000 volumes. The books are kept in fire-proof stack rooms, and a commodious reading room is provided immediately adjoining. Students are permitted under proper restrictions to take books to their rooms. The best reference books and the leading periodical publications are at the disposal of students.

**SCIENTIFIC
APPLIANCES**

In chemistry, physics, mineralogy, botany, entomology, zoology, physiology, agriculture, horticulture, and veterinary science the college is equipped with the latest and best appliances and apparatus, consisting of collections, models, charts, maps, microscopes, balances, etc., representing an outlay by the government of approximately \$80,000.

**MECHANICAL
DEPARTMENT**

The equipment of this department includes a machine shop, a carpenter and pattern-making shop, a blacksmith shop, a foundry, and a drawing room, besides the electrical engineering laboratory. The equipment of the machine shop includes lathes, shaper, milling machine, planer, a universal grinding machine, drill press, and an extensive assortment of small tools. The wood working shop is supplied with a circular saw, band saw, wood turning lathes, a pattern-maker's lathe, and work benches with complete sets of carpenter tools. The blacksmith shop contains eight down draft forges, each supplied with a complete set of blacksmith tools. The foundry is supplied with an 18-inch cupola, core oven, sand sifter, and foundry benches and tools. The air blast is furnished by an electrically driven fan. In the electrical engineering laboratory the machinery has been selected and arranged in such a manner as to afford students the greatest facility for acquiring a thorough knowledge of the different types of electrical machinery and their management. Especial attention has been devoted to alternating polyphase machinery—justified, it is believed, by the rapid development of this branch of engineering. The equipment includes a 30 kilowatt dynamo, directly connected to a 10x10 automatic engine furnishing power for the other electrical machines, which include direct and alternating current dynamos and motors, static and phase-changing transformers,

and synchronous converters, all of the latest designs. The department is well supplied with accessory apparatus, including voltmeters, ammeters, and wattmeters of wide range, as well as galvanometers and other instruments of greater precision. There is also a good selection of physical apparatus for purposes of demonstration and instruction. An additional building for this department will be ready for occupancy for the ensuing year.

DEPARTMENT OF CHEMISTRY This department is located in the new chemistry building, occupying the basement, a lecture room, quantitative laboratory and offices on the first floor, the entire second floor, and the attic—the remainder of the building being occupied by the experiment station. The lecture room seats comfortably seventy-five students, besides containing desks and extensive equipment for demonstration purposes. Quantitative, qualitative, and private laboratories and sample rooms occupy the second floor and one room on the first floor. The laboratories are fitted with work desks designed to meet the demands of the student. Each student has before him two gas cocks, two water cocks, and a trough of running water, and thus need never leave his desk unless it be for a special reagent or for work at the hydrogen-sulfid hood. There is located in the basement of the building a 150-light Tirrill equalizing gas machine, which furnishes light and laboratory heat of the finest quality. The department is equipped with the best of modern apparatus, glassware, and chemicals. This large supply of working material greatly facilitates independent laboratory work. In the more advanced work the student is supplied with a complement of burettes, pipettes, graduated flasks, desiccators, Gooch crucibles, etc. It is the experience of instructors in teaching quantitative analysis that the best results are obtained by having not more than three, preferably two, students for each analytical balance. In recognition of this, the department is equipped with two E. & A., one Rueprecht, one Staudinger, and five Sartorius analytical balances. There are in addition to these, one E. & A. assay balance, one gas analysis balance, and three other balances for rough weighing. In sugar and sugar beet analysis, aside from the ordinary methods used, the student

is taught the use of the polariscope and has at his disposal one Schmidt and Haensch polariscope, equipped with a double set of observation tubes. In the study of mineralogy there is a well chosen collection of several hundred specimens, supplemented by about 300 pounds of working material. Aside from these minerals there are 75 glass and 60 wooden crystal models, and 21 models of precious stones.

**BOTANY AND
ENTOMOLOGY**

The equipment of this department is sufficient to enable it to carry on the work as outlined. Large additions of apparatus for the study of plant physiology have recently been made. The present equipment includes five compound microscopes of the Zeiss make with numerous objectives ranging from four inch to one-twelfth inch oil immersion; 16 simple microscopes; a large assortment of hand lenses and of instruments for enlarging objects observed under the microscope, including good microphotographic apparatus, a dark room and camera for inside and outside work; several hundred slide mounts of low forms of vegetable life and plant fibers; a large collection of plant tissues, preserved for class use, and a fine assortment of reagents; many models illustrating the anatomy of flowers and fruits; several models showing the anatomy of insects, and preparations showing the metamorphoses of the same; a complete set of 100 Kny wall charts, partly colored, showing the different forms of plant growth and reproduction from the lowest plants to the ordinary flowering plant; beside these are 22 Dr. A. Peter charts, all colored, that show representative plants of many orders; four W. and A. K. Johnston charts which show various features of plant structure; good collection of woods, fibers, seeds, etc., and also economic, medicinal, and agricultural plants. The herbarium of the college contains a large and authentic collection of fungi, algæ, mosses, and lichens, to which large additions have been made during the past year. Both the botanical and entomological collections of the experiment station are available for reference when necessary. One important part of the equipment of the department is a bed containing 2000 plants and over a hundred species of hardy perennial herbs. These are for class use in whatever way they may

be required. This department will occupy new and commodious quarters in the new Library Hall at the opening of the fall term.

ZOOLOGY AND VETERINARY SCIENCE This department occupies quarters in the library building, consisting of laboratories for general biological work and a lecture room. The apparatus for general biological work consists of twenty compound Zeiss and Lietz microscopes, with complete sets of eye pieces and objectives, micrometers and cameras, microtomes, thirty sets of dissecting instruments, and photomicrographic apparatus. The department is also well supplied with dissectible models of the various types of animals, including an Auzoux model of the horse; with skeletons of most of the lower animals and of man, and with numerous prepared skins of birds and animals for purposes of demonstration and instruction. A collection of the birds and mammals of Oklahoma has been authorized and is now in progress, and a general museum is being installed. For the work in physiology there are models of the various organs of the body, wall charts, and skeletons, mounted and unmounted.

DEPARTMENT OF AGRICULTURE The equipment for agricultural instruction has been greatly increased during the past year. A two-story brick barn, 60x96 feet has been erected, which, in addition to providing storage space for hay and grain and stabling for livestock, contains a room for stock-judging. The feed lots and corrals have been rearranged in order that the different breeds of livestock may be safely and economically handled. The agricultural and horticultural departments receive great benefit from the experiment station, which is located at the college. This branch of the institution has a large number of experiments continually under way, which constitute the most valuable object lessons to the students. The farm includes 200 acres, two-thirds of which are devoted to agriculture. The experiment station uses all the fields for crop experiments, and thus the student sees the various crops under cultivation; and the study of crop production is further illustrated by a good collection of grasses and field crops exhibited in bundles and show bottles. The live stock equipment affords an excellent op-

portunity to study the improved breeds of stock. The pure-bred stock represented is as follows: cattle, Shorthorns, Herefords, Aberdeen-Angus, and Red Polls; swine, Poland Chinas, Berkshires, Duroc-Jerseys, and Chester Whites; sheep, Shropshires and Cotswolds; horses, Percheron. In addition to the pure breeds of the various classes of stock, grades of the different breeds are kept for comparison. Breeds not represented on the farm are studied from engravings conveniently arranged on wall charts and in albums. The large number of feeding experiments carried on at all times by the experiment station affords the students ample opportunity to apply the principles laid down in the class room. Samples of all standard farm machinery are kept in a commodious implement room where easy access can be had to them, and the student has the opportunity to see these in operation, many of them under draft tests. A farm dairy will be equipped in time for next year's work. Hand separators, milk tests, cream vats, milk coolers, and other apparatus that aid in the production of high grade dairy products will be included.

DEPARTMENT OF HORTICULTURE This department is equipped with a complete line of garden seeders; tools for lawn work; spray pumps with fittings; eighteen complete sets of garden tools; complete models of all common varieties of apples, peaches, plums, pears, and cherries; charts showing the diseases of fruit and garden plants; an herbarium of cultivated plants showing most of the different plants cultivated in the United States; five complete sets of instruments used in plant breeding; five complete microscopes and accessories. All the leading publications, domestic and foreign, along horticultural lines, are received regularly. In the way of practical operations, this department is well situated, having at its command the extensive vineyards and orchards of the experiment station. The horticultural grounds include sixty acres with more than fifty thousand trees and vines. For instruction in forestry, a plantation of forty thousand trees is available, both for observation and study and for instruction in propagation, pruning, and transplanting.

DEPARTMENT
OF
DOMESTIC
ECONOMY

This department will, at the opening of the coming school year, be located in the rooms which are being finished for the purpose, on the first floor of the addition to Library Hall. The department will include a kitchen laboratory, class dining room, two sewing rooms, office, and store rooms. The present equipment will be moved into the new rooms, with other necessary furniture. The kitchen laboratory now has equipment sufficient to enable twelve pupils to work at one time, and consists of twelve conveniently arranged desks, furnished with all the dishes and cooking utensils necessary for individual work; cases for the large utensils and supplies and illustrative material; one gas range, one gasoline range, and three small gas burners on the work desks; charts and samples to aid in teaching and studying the composition and preparation of the different foods. The equipment of the class dining room consists of a full set of dining room furniture and dishes used by the classes studying dining room management and serving. The sewing room is equipped with one large cutting table and six sewing tables, all made with drawers in which to keep garments and material; five sewing machines of different makes; a large mirror for use in dress fitting; illustrative material, such as cotton, silk, and flax fibers, needles, etc., and twenty sewing chairs. It is expected that further equipment will be added during the coming year.

OTHER
DEPARTMENTS

The departments of the English language and literature, of foreign languages, and of history and political economy are properly supplied with facilities for instruction, and are represented with special fullness in the library. The department of mathematics and civil engineering has extensive appliances for demonstration, instruction, surveying, and other practical work. The printing office is suitably equipped for instruction, which is its primary purpose. The regular college publication, *The College Paper*, is issued by this department, under student management, and the general job work of the college, including the annual catalogue is done by it. The department of stenography and typewriting is equipped with eight typewriters and other necessary appliances.

AGRICULTURAL EXPERIMENT STATION.

This department of the college is maintained for the purpose of conducting experiments relating to the development of our agricultural interests and the widening of our knowledge on subjects in any way connected with farm life. Experiments in crop production, stock raising and feeding, fruits and vegetable growing, are conducted on a 200 acre farm belonging to the college. In the laboratories animal and plant diseases, insects, the composition of feeding stuffs, and kindred subjects are investigated by trained specialists, each of whom has devoted many years to study and preparation for the particular class of work committed to him.

While the station takes no direct part in instruction, its work affords a valuable source of illustration and a stimulus to students in every branch of science. With but two exceptions, members of the station staff are also engaged in instruction in the college. Students showing special aptness are frequently employed in the work of the station and thus gain valuable experience and are enabled to earn something toward paying their expenses.

The chief purpose of the station is to discover new truths and new applications of old ones. It properly leaves to the college the work of instruction in systemized knowledge.

Bulletins reporting results of completed investigations are issued by the station and sent free to all who request them.

REQUIREMENTS FOR ADMISSION.

To enter the freshman class the applicant, under the territorial law, must pass a satisfactory examination in the following subjects: reading, spelling, penmanship, geography, United States history, grammar, and arithmetic. It is urgently recommended, also, that he be well prepared in physical geography and civil government, as these subjects are covered in our sub-collegiate department. He should be able to pass the examination for a second grade certificate under the territorial law. Applicants for the freshman class must be fourteen years of age.

In order to meet the wants of those whose school facilities

have not been sufficient to prepare them for the collegiate work, a preparatory or sub-collegiate course, extending through two years, has been provided, which gives a thorough and approved training in all the branches above mentioned and in civil government, physical geography, and free-hand drawing. Applicants to enter this department must be sixteen years of age.

COURSES OF INSTRUCTION.

All regular collegiate courses cover a period of four years, and lead to the degree of Bachelor of Science. The courses are as follows:

- I. General Science and Literature course.
- II. Agricultural course—including Horticulture and Veterinary Science.
- III. Mechanical Engineering course.
- IV. Courses in Special Science:
 1. Chemistry.
 2. Biology, with majors in Botany or in Zoology.

GENERAL SCIENCE AND LITERATURE COURSE.

While not more favored or more important than the other courses, this may be called the major course of the institution. It is arranged to the end of giving a good working higher education. Its first two years, it will be observed, are practically duplicated in all the other courses, the technical and expert work in the specialized courses beginning generally at the end of the sophomore year, when the student more fully understands his preferences and capacity.

The Course in Detail.

[The figures indicate the number of recitation hours per week; figures in parentheses indicate hours of practical work per week.]

FRESHMAN YEAR.

FALL TERM	WINTER TERM	SPRING TERM
Rhetoric. 3	Rhetoric. 3	Etymology and Structure 3
German or Latin. 3	German or Latin. 3	German or Latin. 3
Algebra 5	Algebra 5	Algebra. 5
Physiology 4	Physics. 4	Geometry. 5

18 OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE

Sewing—women(5)	Sewing—women.....(5)	Hygiene—women.....2
Drawing or Book-keep- ing—women.....(5)	Drawing—women.....(5)	Cooking—women..... (6)
Drawing—men.....(5)	Drawing or Nursery- work—men(10)	Woodwork or Stock- judging—men..... (8)
Book-keeping—men(5)		

SOPHOMORE YEAR

Advanced Rhetoric.....2	Theme work.....2	Theme work.....2
German or Latin... ..3	German or Latin.....3	German or Latin.....3
Algebra.....3	Geometry.....5	Trigonometry.....5
Geometry.....2	Chemistry.....3 (4)	Chemistry.....2 (4)
Chemistry.....3 (4)	English History—men. .5	Botany.....4 (4)
Zoology.....3 (4)	Cooking—women.....(10)	
	Public Speaking.....(2)	

JUNIOR YEAR

English Literature.....2	English Literature.....2	American Literature.... .2
German or Latin.....3	German or Latin.....3	German or Latin.....3
Physics.....4 (2)	Physics.....4	Entomology.....3 (4)
Materia Medica or Botany { ..3 (4)	Veterinary Medicine { 3 (4) or Botany	Cellular Biology or { ..3 (4) Botany
Feeds and Feeding, Analytical Geometry, Political Economy, { ..5 or Domestic Economy— women }	Farm Dairying, Evolu- tion of Cultivated Plants and Small Fruits, Analytical Geometry, Constitu- tional Law, or Do- mestic Economy— women }	Principles of Breeding, Crops, Calculus, Sociology, or Do- mestic Economy— women }
	Public Speaking.....(2)	

SENIOR YEAR

Literature.....3	Literature.....3	Literature.....3
Latin or German.....3	Latin or German.....3	Latin or German.....3
Geology4 (2)	Bacteriology.....2 (4)	Bacteriology.....2 (4)
Law.....2	General History.....3	General History.....3
Political and Industrial History.....3	Psychology.....2	Psychology.....2
Botany, Embryology { ..4 or Calculus }	Botany, Forestry, { ..5 or Calculus }	Thesis.....(10)

AGRICULTURAL COURSE.

This course is designed to afford scientific training and practical knowledge to young men who expect to follow agriculture as a life work, or to prepare themselves as instructors of others therein. Short winter courses in agriculture are also offered by the college for the benefit of farmers and others interested, who are not in a position to matriculate as regular students of the institution. Detailed announcement of these courses will be found on another page.

The Course in Detail.

FRESHMAN YEAR.

FALL TERM	WINTER TERM	SPRING TERM
Rhetoric.....3	Rhetoric... ..3	Etymology and Structure..3
Breeds....3	Propagation of Plants...3	Breeds.....3

Algebra.....5	Algebra.....5	Algebra.....5
Physiology.....4	Physics.....4	Geometry.....5
Drawing.....(5)	Nursery Work.....(10)	Stock Judging.....(8)
Book-keeping.....(5)		

SOPHOMORE YEAR

Advanced Rhetoric.....2	Theme Work.....2	Theme Work.....2
Geometry.....2	Geometry.....5	Trigonometry.....5
Algebra.....3	Pomology.....3	Soils.....3
Spraying.....1	Chemistry.....3 (4)	Chemistry.....2 (4)
Vegetable Gardening.....2	English History.....5	Botany.....4 (4)
Zoology.....3 (4)	Public Speaking.....(2)	
Chemistry.....3 (4)		

JUNIOR YEAR

Physics.....4 (2)	Veterinary Medicine.....5	Entomology.....3 (4)
Botany.....3 (4)	Botany.....3 (4)	Botany.....3 (4)
Chemistry.....3 (4)	Farm Dairying.....3 (4)	Principles of Breeding.....5
Feeds and Feeding.....5	Evolution of Cultivated Plants.....3	Crops.....5
	Small Fruits.....5	

SENIOR YEAR

Geology.....4 (2)	General History.....3	General History.....3
Law.....2	Bacteriology.....2 (4)	Bacteriology.....2 (4)
Political and Industrial History.....3	Forestry.....5 (2)	History of Agriculture.....3
Landscape Gardening.....3	Blacksmithing.....(8)	Irrigation and Farm Drainage.....2
Farm Equipment.....3	German.....3	German.....3
German.....2		Thesis.....(10)
Shop Work.....(4)		

COURSE IN MECHANICAL ENGINEERING.

This course is intended to prepare young men for positions of usefulness and responsibility in the mechanical and electrical professions. The first two years are devoted to a thorough grounding in English, mathematics, and physics, mechanical drawing and shop work being also given. The last two years are devoted to the more technical engineering studies, including the higher mathematics, machine designing, steam machinery, and strength of materials. An electrical engineering course is given during the last two years, embracing the subjects of electrical measurements, direct and alternating current dynamos, motors, transformers, systems of power distribution, electric lighting, electric railways, etc. Short winter courses are also offered in this department for those who are unable to matriculate for the full course. Detailed announcement of these courses will be found on another page.

*The Course in Detail.***FRESHMAN YEAR.**

FALL TERM	WINTER TERM	SPRING TERM
Rhetoric.....3	Rhetoric.....3	Etymology and Structure..3
German.....3	German.....3	German.....3
Algebra.....5	Algebra.....5	Algebra.....5
Physiology.....4	Physics.....4	Geometry.....5
Freehand Drawing.....(5)	Woodwork.....(10)	Foundry and Pattern Mak- ing.....(8)
Book-keeping.....(5)		

SOPHOMORE YEAR

Advanced Rhetoric.....2	Theme Work.....2	Theme Work.....2
German.....3	Geometry.....5	Trigonometry.....5
Algebra.....3	Chemistry.....3 (4)	Chemistry.....2 (4)
Geometry.....2	Descriptive Geometry.....5	Descriptive Geometry.....5
Special Algebra.....2	Mechanical Drawing.....(6)	Mechanical Drawing.....(4)
Chemistry.....3 (4)	Public Speaking.....(2)	Surveying.....(4)
Mechanical Drawing....(6)		

JUNIOR YEAR

Physics.....4 (2)	Physics.....4	Electricity and Magnet- ism.....4 (2)
Analytical Geometry.....5	Analytical Geometry.....5	Calculus.....5
Kinematics.....3	Applied Mechanics.....3	Applied Mechanics.....4
Steam Boilers.....3	Valve Gears.....3	Indicators.....2
Blacksmith Shop.....(8)	Machine Shop.....(10)	Machine Shop.....(8)

SENIOR YEAR

Calculus.....4	Calculus.....4	General History.....3
Political and Industrial History.....3	General History.....3	Thermodynamics.....5
Machine Design.....4 (4)	Machine Design.....4 (6)	Machine Design.....4
Electrical Engineering4 (6)	Electrical Engineering4 (4)	Electrical Engineering.....3
		Thesis.....(10)

COURSE IN SPECIAL SCIENCE—CHEMISTRY.

With the present arrangement of courses of study it is found very satisfactory to have all students, throughout their sophomore year, take the same amount of chemistry regardless of the work they purpose to elect thereafter. To these students it is the policy of the department to teach thoroughly the elements of chemistry, instead of covering thinly the broad domain of the science.

But in the specialized course the student must go more deeply and familiarly into the subject. Its object is to lead him to think, act, and work for himself intelligently; to acquaint himself thoroughly with the science of the subject; to give him independence of thought and action and to familiarize him with its practical applications in modern life. The scope of the work is broad and the standard of efficiency and thoroughness required is high. The time students may work in the laboratories is gov-

erned only by the time actually set aside for such work and all other times when they are not performing assigned college work. Since the analyst becomes proficient only through practice, it follows that the more time he spends in the laboratory the higher and more nearly perfect will become his standard of excellence.

The Course in Detail.

FRESHMAN YEAR.

FALL TERM	WINTER TERM	SPRING TERM
Rhetoric.....3	Rhetoric..... 3	Etymology and Structure 3
German.....3	German.....3	German.....3
Algebra..... 5	Algebra.....5	Algebra.....5
Physiology.....4	Physics.....4	Geometry.....5
Sewing—women.....(5)	Sewing—women.....(5)	Hygiene—women.....2
Drawing or Book-keep- ing—women.....(5)	Drawing—women.....(5)	Cooking—women..... (6)
Drawing—men.....(5)	Drawing or Nursery- work—men.....(10)	Woodwork or Stock- judging—men..... (8)
Book-keeping—men.....(5)		

SOPHOMORE YEAR

Advanced Rhetoric.....2	Theme work.....2	Theme work.....2
German.....3	German.....3	German.....3
Algebra..... 3	Geometry.....5	Trigonometry.....5
Geometry.....2	Chemistry.....3 (4)	Chemistry.....2 (4)
Chemistry.....3 (4)	English History—men. .5	Botany.....4 (4)
Zoology..... 3 (4)	Cooking—women.....(10)	
	Public Speaking.....(2)	

JUNIOR YEAR

English Literature.....2	English Literature.....2	American Literature.... .2
German.....3	German.....3	German.....3
Physics.....4 (2)	Physics.....4	Electricity.....3 (4)
Theoretical Chemistry 3 (4)	Organic Chemistry....3 (4)	Organic Chemistry....3 (4)
Botany, Materia Med- ica, Analytical Geometry, Political Economy, or Domes- tic Economy—women } ..5	Botany, Veterinary Medicine, Alalytical Geometry. Constitu- tional Law, or Domes- tic Economy—women } ..5	Chemistry Practicum....(10)
	Public Speaking.....(2)	

SENIOR YEAR

Geology 4 (2)	Bacteriology.....2 (4)	Bacteriology.....2 (4)
Law.....2	General History.....3	General History.....3
Political and Industrial History.....3	Metallurgy.....5	Industrial Chemistry...3 (10)
Chemistry.....3 (4)	Industrial Chemistry 3 (10)	Thesis.....(10)
Mineralogy.....5		

COURSE IN SPECIAL SCIENCE—BIOLOGY.

This course is designed to afford the student a thorough knowledge of the fundamental principles of general biology. Plants and animals are studied as living organisms and their genetic relationships are plainly shown. Wherever possible, practical applications of the principles derived are made. At

the beginning of the senior year an opportunity is offered to specialize in either Botany or Zoology. In the spring term students devote their time to the investigation of some approved subject and present the results as a thesis for graduation.

The Course in Detail.

FRESHMAN YEAR.

FALL TERM	WINTER TERM	SPRING TERM
Rhetoric.....3	Rhetoric.....3	Etymology and Structure 3
German or Latin.....3	German or Latin.....3	German or Latin.....3
Algebra.....5	Algebra.....5	Algebra.....5
Physiology.....4	Physics.....4	Geometry.....5
Sewing—women.....(5)	Sewing—women.....(5)	Hygiene—women.....2
Drawing or Book-keeping—women.....(5)	Drawing—women.....(5)	Cooking—women.....(6)
Drawing—men.....(5)	Drawing or Nursery-work—men.....(10)	Woodwork or Stock-judging—men.....(8)
Book-keeping—men.....(5)		

SOPHOMORE YEAR

Advanced Rhetoric.....2	Theme work.....2	Theme work.....2
German or Latin.....3	German or Latin.....3	German or Latin.....3
Algebra.....3	Geometry.....5	Trigonometry.....5
Geometry.....2	Chemistry.....3 (4)	Chemistry.....2 (4)
Chemistry.....3 (4)	English History—men.....5	Botany.....4 (4)
Zoology.....3 (4)	Cooking—women.....(10)	
	Public Speaking.....(2)	

JUNIOR YEAR

English Literature.....2	English Literature.....2	American Literature.....2
German or Latin.....3	German or Latin.....3	German or Latin.....3
Physics.....4 (2)	Physics.....4	Botany.....3 (4)
Materia Medica.....4 (2)	Veterinary Medicine.....5	Cellular Biology.....3 (4)
Botany.....3 (4)	Botany.....3 (4)	Entomology.....3 (4)
	Public Speaking.....(2)	

SENIOR YEAR

Literature.....3	Literature.....3	Literature.....3
Geology.....4 (2)	General History { }.....3	General History { }.....3
Botany or Zoology.....2 (4)	Psychology { }.....2	Psychology { }.....2
Law.....2	or	or
Political and Industrial History.....3	Botany.....3 (4)	Botany.....3 (4)
Latin or German.....3	Bacteriology.....2 (4)	Bacteriology.....2 (4)
	Latin or German.....3	Latin or German.....3
	Forestry.....5	Thesis.....(10)

SHORT WINTER COURSES IN AGRICULTURE, HORTICULTURE, AND THE MECHANIC ARTS.

During a portion of the winter term practical instruction is given in matters directly related to farming, stock raising, and fruit growing, and the management of steam engines, with special attention to machinery used on farms. Any person over sixteen years of age may take this work, no examinations for admission being required. A circular describing the work of

these courses in detail will be issued in November. In 1903 they will cover eight weeks, from January 6 to February 27. The following list contains the work which will be given at that time.

Principles of Breeding—4 lectures.
 Study of Breeds—10 lectures.
 Stock-judging—10 lectures.
 Diseases of Live Stock—18 lectures.
 Stock Feeding—12 lectures.
 Farm Dairying—9 lectures.
 Crops for Oklahoma—18 lectures.
 Farm Machinery and Equipment—12 lectures.
 Steam Engines and Boilers—8 lectures.
 Maintaining Soil Fertility—9 lectures.
 Orchard and Small Fruits—18 lectures.
 Troublesome Insects—9 lectures.
 Elementary Botany—9 lectures.
 Farm Hygiene; Water Supply—10 lectures.
 Legislation and Laws Affecting Farmers—12 lectures.
 Farm Accounts, Mortgages, etc.,—12 lectures.

Work in blacksmithing, steam engines and boilers, veterinary practice, and practical horticulture will be given in the afternoon in so far as the facilities of the college will allow.

The lectures will be supplemented by practical work in the dairy, barns, shops, and orchards, designed to fix and illustrate the methods and practices advised. It is practical instruction throughout and planned to give the most that is possible in so short a time.

COURSE IN TYPEWRITING AND STENOGRAPHY.

The course in stenography and typewriting covers from six to nine months, and aims to give the student a practical, expert, and usable knowledge of the subjects. In the case of students taking this course special attention is given to their instruction in English.

PREPARATORY DEPARTMENT.

The work of this department is intended as a preparation for all of the other courses. It is not required to be taken if the student has received equivalent instruction elsewhere.

Students, likewise, may take the second year only, if found sufficiently well prepared.

FIRST YEAR. The work this year is devoted to instruction in grammar, arithmetic, geography, United States history, spelling, punctuation, penmanship, reading, and rhetorical exercises.

SECOND YEAR. The second year reviews and completes the study of arithmetic, grammar, geography, and United States history; continues the work in penmanship and reading; and takes up the subject of civil government, free hand drawing, composition, lecture and field studies for male students on agriculture or horticulture, and physical geography. Public rhetorical exercises are required this year.

DEPARTMENTS OF INSTRUCTION.

It is purposed under this title to give a more extended account of the topics covered in the several departments.*

The English Language and Literature.

The President
Professor Tucker

The study of the English language and literature runs through the four years of the general science and literature course.

1. RHETORIC. This subject occupies the first two terms of the freshman year. It begins with a comprehensive review of grammar, and a checking up of the ordinary errors and slovenliness of speech. Practical and painstaking instruction is given in punctuation, in letter writing, and in the preparation of manuscript for the press. The principles of invention, the elements of style, the different forms of composition, and other matters belonging to elementary rhetoric are then taken up preparatory to the advanced study of the same subject the next year.

2. ETYMOLOGY AND STRUCTURE. The spring term of the freshman year is devoted to this work. It is, in brief, the study of word building, with special reference to the Latin and Saxon elements of the language.

3. ADVANCED RHETORIC AND THEME WORK. This extends through the sophomore year. It covers in a more ample and philosophical form the work of the freshman year, and gives almost exclusive attention during the last half of the year to practical theme writing. The work begins with the writing of narratives, both imaginative and within the student's experience, followed by newspaper writing, argumentative writing, and so on to abstract themes. In addition to the regular class-room work in the freshman and sophomore years, a limited number of books are assigned as parallel reading. These books are selected with a view to their adaptability and application to the work in hand, and they constitute the basis of examination at stated intervals during the term.

4. LITERATURE. The Junior year in this department is given to the study of English and American literature. While this year's work is historical, rather than philosophical or critical, yet the subject is presented by periods, the characteristics of which are carefully studied. Extended readings from representative authors are given, the comparative method being constantly kept in view. Written work is required in the discretion of the instructor, both as fixing the student's grasp of the subject, and as further illustrating the principles of rhetoric. A reading course in Shakespeare is given in connection with this year's work.

5. LITERARY INTERPRETATION AND CRITICISM—MASTERPIECES The senior year opens with a view of the philosophy of the development of our literature, and the principles of literary interpretation and criticism. This work is based upon approved texts, and is reinforced by lectures. The last half of the year is given to the critical study of the masterpieces of the language in poetry and prose. The course closes with a critical study of living writers.

6. WORK IN SPECIAL SCIENCE COURSES. In the agricultural, horticultural, and mechanical engineering courses, the work in English and literature above detailed ceases at the end of the sophomore year. In the other special science courses the literature studies of the junior year are retained.

Agriculture.

Professor Burtis

The following analysis applies to students taking the specialized course in agriculture (see page 18). It indicates, also, however, the elective work in agriculture and horticulture which is offered in the other courses.

1. STOCK-JUDGING. Freshman year, spring term. A thorough training in score card work. Study of animal form as an index of qualities; selection of animals to give the greatest excellence in beef, dairy, mutton, wool and pork products. Study of pedigrees. Most of the time is put in at the barns with the score card comparing the different types of animals and judging

them for the purpose for which they are raised, and scoring the different breeds according to the official score cards.

2. **BREEDS OF LIVE STOCK.** Freshman year, fall and spring terms. In the first term's work only the most important points of the leading breeds of live stock will be taken up. In the second term all the breeds will be taken up in detail and further score card practice given.

3. **CROPS.** Junior year, spring term. Choice, uses, and preservation; varieties and their improvements; planting and cultivation; rotations. Examination of crops in the fields and from preserved samples given special attention.

4. **SOILS.** Sophomore year, spring term. Origin; chemical and physical composition; classification; handling to obtain conditions best suited to plant growth.

5. **FEEDS AND FEEDING.** Junior year, winter term. Nutrition; composition of feeds and their preservation as affecting quality; compounding rations for growth, maintenance, fattening, and milk; feeding and preparing stock for market. Observing and taking data in the feeding under way on the farm will be a feature of the work.

6. **FARM DAIRYING.** Junior year, winter term. A study is made of the methods and apparatus for the production and handling of dairy products in a wholesome and economical manner on the farm. Composition of milk and the causes that affect it and bring about changes. Practical work in milk testing, separating milk, ripening cream, churning, and preparing butter and milk for the market will be given in the dairy room.

7. **PRINCIPLES OF BREEDING.** Junior year, spring term. The laws of heredity, variation, atavism, and correlation are given special attention. Prepotency and fecundity, and the influences that affect them are discussed. In-and-in breeding, line breeding, cross breeding, grading, and the formation of breeds are taken up in detail.

8. **FARM EQUIPMENT.** Senior year, spring term. Buildings, fences, roadways; implements and machinery; selection of farms and farm management.

9. HISTORY OF AGRICULTURE. Senior year, spring term. Development and improvement of agriculture; methods and causes which have effected changes; markets, past, present, and future.

10. IRRIGATION AND FARM DRAINAGE. Senior year, spring term. Field for irrigation; amount of water required for various crops; methods; sources of water; cost. Land which may be improved by drainage; methods; cost. Protecting land from erosion.

Horticulture.

Mr. Morris

The following analysis applies to students taking the specialized course in agriculture (see page 18). It indicates also, however, the elective work in agriculture and horticulture which is offered in the other courses.

1. PROPAGATION OF PLANTS. Winter term of freshman year. Study of methods of propagating plants by seeds, buds, grafts, cuttings, layers, etc.; methods of transplanting and handling young plants; "The Nursery Book", by L. H. Bailey. The afternoon work will be practical work in budding, grafting, pruning, training, and transplanting and spraying plants. Packing plants and fruits.

2. PRINCIPLES OF VEGETABLE GARDENING. Fall term of sophomore year. Garden vegetables, methods of cultivation and marketing.

3. PRINCIPLES OF SPRAYING. Fall term of sophomore year. Spraying solutions and their preparation; spraying machinery, its use and care.

4. POMOLOGY. Winter term of sophomore year. Study of orchard and small fruits, and cultivation and management of orchards.

5. EVOLUTION OF CULTIVATED PLANTS. Winter term, junior year. Origin and character of varieties, methods, and principles of plant breeding; variation of plants under cultivation; lectures and tests. Afternoon, actual work in plant breeding.

6. **SMALL FRUITS.** Winter term of junior year. Cultivation and management of small fruits.

7. **FORESTRY.** Winter term, junior year. Study of requirements for forest growth, characteristics of forest trees, care and preservation of forests; lectures and tests. Afternoon work: Observation, measurement, and comparison of forest growth, study and test of different woods, etc.

Mechanical Engineering.

Professor Chandler

Mr. Shane

Mr. Howe

The following analysis applies to students taking the mechanical engineering course (see page 19). It indicates also, however, the elective or regular work in the other courses, as shown in the detailed outlines.

1. **FRESHMAN PHYSICS.** Freshman year, winter term. Elementary course in general physics.

2. **DESCRIPTIVE GEOMETRY.** Sophomore year, fall and winter terms. Orthographic projection of lines, planes, and surfaces. Axonometric projection, surfaces of the second order; intersections, shades and shadows, and linear perspective.

3. **MECHANICAL DRAWING.** Sophomore year; fall, winter and spring terms; afternoon. Projection on right and oblique planes, intersections of surfaces and solids; machine sketching; making of complete working drawings, tracing and blue-printing.

4. **KINEMATICS.** Sophomore year, spring term. Study and design of mechanical movements, including gearing, belting, links, etc.

5. **JUNIOR PHYSICS.** Junior year, fall and winter terms. Advanced course in mechanics, sound, heat, light, and electricity.

6. **APPLIED MECHANICS.** Junior year, fall, winter, and spring terms. Statics, moment of inertia; hydrostatics, hydraulics, theory of structures, kinetics.

7. STEAM BOILERS. Junior year, fall term. Materials of construction, steam boiler design, care and operation of boilers.

8. STEAM AND OTHER ENGINES. Junior year, winter term. Elementary theory of steam, gas, and oil engines; valve mechanism, etc.

9. INDICATORS AND VALVE GEARS. Junior year, spring term. Detailed study of valve gears, and valve setting; use of indicators.

10. THERMODYNAMICS. Senior year, spring term. Advanced discussion of the theory of heat engines.

11. MACHINE DESIGN. Senior year, fall, winter, and spring terms; with afternoon work in drawing in the fall and winter terms. Determination of the proper proportion of machine parts, such as screws, bolts, nuts, shafts, and pulleys; also the designing of the various parts of the steam engine.

12. ELECTRICITY AND MAGNETISM. Junior year, spring term. Advanced study of electrostatics, magnetism, electric current, and batteries. The elements of alternating currents, electric lighting and power.

13. ELECTRICITY AND MAGNETISM PRACTICUM. Junior year, spring term. Measurement of magnetism, resistance, and electromotive force; study of batteries; use of galvanometers.

14. ELECTRICAL ENGINEERING. Senior year; fall, winter, and spring terms. Electromagnetism and magnetic circuit; direct and alternating current dynamos and motors; electric lighting; electric railways; systems of transmission and distribution.

15. ELECTRICAL ENGINEERING PRACTICUM. Senior year, fall and winter terms, afternoon. Tests of dynamos, motors, transformers; direct current, and one, two, and three phase systems; study of arc and incandescent lamps, measurement of power and efficiency.

16. WOOD WORKING. Freshman year, winter term. Bench work in wood: sawing, planing, and joining; center and chuck turning in wood. Instruction in care and use of tools.

17. **PATTERN-MAKING AND FOUNDRY.** Freshman year, spring term. Construction of patterns; moulding in sand; core making; melting iron and pouring castings.

18. **BLACKSMITHING.** Junior year, fall term. Iron and steel forging; drawing, upsetting, welding and tempering.

19. **MACHINE SHOP.** Junior year, winter term. Filing and chipping, metal work on lathes, planer, shaper, and milling machine.

Mathematics.

Professor Means

Mr. Howe

1. **ALGEBRA.** Fall, winter, and spring terms of the freshman year, and fall term of the sophomore year. A thorough drill in the elements of algebra, including fractions, simultaneous equations, and radical expressions; also higher algebra, covering quadratic equations, simple and indeterminate equations, theory of exponents, ratio and variation, and the binomial and exponential theorems.

2. **GEOMETRY.** Spring term of the freshman, and fall and winter terms of the sophomore year. The elements of plane geometry; involving the relations of lines and planes in space, the area of surfaces, the volume of solids, and original solutions.

3. **TRIGONOMETRY AND SURVEYING.** Spring term, sophomore year. The use of logarithms, and the determination and use of trigonometric formulæ, with field work in surveying.

4. **ANALYTICAL GEOMETRY.** Fall and winter terms, junior year. The reference of points and lines to co-ordinate axes, and the deduction of equations of the straight lines and curves of the conic sections.

5. **CALCULUS.** Spring term, Junior year, fall and winter terms, senior year. Differential calculus, development and application of fundamental principles and formulæ; integral calculus, determination of formulæ, applications in determining lengths of curves, area, maxima and minima, etc.

Chemistry.

Professor Holter
Mr. Morgan

1. GENERAL COURSE. All students in all courses are required to take chemistry throughout the sophomore year. In the fall term the non-metals are studied and discussed in the lecture room, and simple manipulations, preparation of salts and gases, and group separations are taught in the laboratory. In the winter and spring terms the metals are taken up in the lecture room and complete qualitative analysis worked out in the laboratory. Each student is supplied with a full set of apparatus suitable to his work and is required to spend at least two hundred hours in the laboratory during the year. It is found that each year there are students who work in the laboratory over two hundred and fifty hours. While the laboratory period is from 1:30 to 3:30, it is the custom, as well as the policy, of the department to open the laboratory immediately after the noon hour and allow students to remain until 5 o'clock if they desire to do so. Again, while there are assigned days for laboratory work in chemistry, all students working in the chemical laboratories have permission to work there on any other days so long as this work does not interfere with other college duties. In the lecture room special attention is given to the arithmetic of chemistry and the working out of chemical equations. Experience teaches that without the arithmetical application of the equations, by means of numerous practical problems, the fundamental principles involved in the equations are wholly lost upon the average student. Text books used are: Pond's Non-Metals, Richter's Inorganic Chemistry, in the class room; and in the laboratory, Williams's Chemical Preparations, and Harris's Qualitative Analysis.

2. SPECIALIZED COURSE. Junior year: Qualitative Analysis, using in the laboratory Talbot's work during the entire year, supplemented by Fresenius, Thorpe, etc. Minimum number of hours, 260. In the class rooms the texts used are: Fall term, Weichmann's Theoretical Chemistry; winter and spring terms, Remsen's Organic Chemistry. The recitations are very fully

supplemented by numerous discussions, lectures, and demonstrations.

Senior year: Special topics are taken up during this year and such text books are studied as will best meet the requirements of the class. Instead of adopting, as in the Junior year, certain texts, it is found quite satisfactory to propose a number of books that may be studied, consistently with the work, and then allow the class to select from this list. The laboratory work has a wide range and includes the chemistry of experiment station work, metallurgy of iron and steel, assaying, sugar analysis, water analysis, sugar beet analysis, food adulterations and their detection, preparation of organic compounds, mineralogy, standardizing solutions, abstracting of chemical literature (in connection with special laboratory work), graduation thesis.

Botany and Entomology.

Dr. Shaw

1. GENERAL BOTANY. This course is intended to afford a general introduction to the subject of botany and is a prerequisite of all other courses in botany. The fundamental principles of biology are developed from the standpoint of living plants, while the work in the laboratory covers the essentials of general morphology and classification of the entire vegetable kingdom; this is accomplished by the critical examination of types. Occasional field trips and the collection of illustrative specimens will introduce the student to the surrounding flora.

Lectures and recitations: Four hours per week during the spring term.

Laboratory work: Tuesday and Thursday, 1:30-3:30.

Required of all sophomores except those in the course in mechanical engineering.

2. COMPARATIVE ANATOMY OF THE SPERMATOPHYTES. A thorough study of the structure and activities of the plant cell is followed by an examination of the typical tissues and their distribution with special reference to their functions. Students are required to become acquainted with the general methods of botanical microtechnique, including the killing, fixing, imbed-

ding, sectioning, staining, mounting, and drawing of the tissues studied.

Lectures and recitations: Tuesday, Thursday, and Saturday during the fall term.

Laboratory work: Wednesday and Friday, 1:30-3:30.

Required of juniors in the courses in biology and agriculture; elective for juniors in the courses in general science and literature, and in chemistry.

3. PLANT PHYSIOLOGY. This is a course of carefully selected experiments supplemented by selected readings, conferences, and lectures. The aim is to develop a good knowledge of the general functions of seed-plants, such as absorption, carbon-dioxid assimilation, transpiration, and respiration.

Lectures and recitations: Tuesday, Thursday, and Saturday during the winter term.

Laboratory work: Wednesday and Friday, 1:30-3:30.

Required of juniors in the courses in biology and agriculture; elective for juniors in the courses in general science and literature, and in chemistry.

4. PLANT PATHOLOGY. Critical studies of selected types of the groups of fungi form the basis of a series of lectures and recitations concerning the morphology, relationships, and particularly the economic importance of the species.

Lectures and recitations: Tuesday, Thursday, and Saturday during the spring term.

Laboratory work: Wednesday and Friday, 1:30-3:30.

Required of juniors in the courses in biology and agriculture; elective for juniors in the course in general science and literature.

5. ECOLOGICAL ANATOMY. Considering plants in relationship with their environment, the main topics discussed are the structure and development of the various plant organs in relation to their special functions of nutrition, reproduction, protection, etc. The laboratory work will be devoted to the anatomical study of the tissues adapted for absorption, carbon-dioxid assimilation, conduction, transpiration, respiration, protection, storage, secretion, and movement. Field work will call attention to

the action of the various ecological factors and their effects in determining the composition of the different plant societies.

Lectures and recitations: Tuesday and Saturday during the fall term.

Laboratory and field work: Wednesday and Friday, 1:30-3:30.

Elective for seniors in the courses in biology and general science.

6. COMPARATIVE EMBRYOLOGY OF THE SPERMATOPHYTES. Each student will, in the laboratory work, devote his attention to some species that promises special interest or value. The lectures will cover a somewhat wider range of work and will relate the student's work to the recent discoveries in this subject.

Lectures and conferences: Tuesday, Thursday, and Saturday during the winter term.

Laboratory work: Wednesday and Friday, 1:30-3:30.

Elective for seniors in the courses in biology and general science.

7. THE NATURAL FAMILIES OF SPERMATOPHYTES. A study is made in this course of the main diagnostic characters of the leading families in biological sequence, using as a reference work, Engler and Prantl's *Natuerliche Pflanzenfamilien*. Constant reference will be made to the species of economic importance and to the general geographical distribution of the different families.

Lectures and conferences: Tuesday and Saturday during the spring term.

Elective for seniors in the course in biology.

8. HISTORY OF BOTANY. The plan followed in this course is to trace the origin and development of prominent ideas and to notice the lives of those persons who have made prominent contributions to the various departments of botanical investigation. Constant reference will be made to Sach's *History of Botany*.

Lectures and conferences: Wednesday and Friday during the spring term.

Elective for seniors in the course in biology.

9. BIBLIOGRAPHICAL METHODS AS APPLIED TO BOTANICAL RESEARCH. The purpose of this course is to acquaint the stu-

dent with the sources of information regarding botanical subjects and to place in his hands the best methods of recording references to this literature. Each student will be required to prepare and present a card-index of the available literature of some selected subject.

Lectures and practical work: Thursday during the spring term.
Elective for seniors in the course in biology.

10. BOTANICAL SEMINAR. The current botanical periodicals received will be assigned to students and reviews of the important articles will be presented and discussed at the meetings. The aim of the seminar is to bring students into contact with the results of the latest research in all languages and to foster the spirit of original research.

Meetings: Alternate Wednesdays during the year.

Optional with all juniors and seniors taking courses in this department.

11. ENTOMOLOGY. The laboratory work is devoted to a study of the internal anatomy and morphology of selected types of insects. Both the lectures and recitations will give special attention to economic insects and to the common methods of collecting and breeding insects.

Lectures and recitations: Tuesday, Thursday, and Saturday during the spring term.

Laboratory work: Wednesday and Friday, 1:30-3:30.

Required of juniors in the courses in biology, agriculture, and general science and literature.

12. RESEARCH AND THESIS WORK. The following lines of work are open to students during this year:

- a. Comparative Embryology of the Spermatophytes.
- b. Ecology and Ecological Anatomy.
- c. Histology of Selected Plants or Organs.
- d. Physiology and Morphogenesis.
- e. Plant Industry.
- f. Entomology.

Seniors in the course in biology who elect botany during the winter term will devote four hours per week in the laboratory during this term to the study of their selected subject.

The spring term will be devoted to the completion of a thesis on a subject approved by the head of the department. All students who contemplate electing work in this department are requested to give early notice to the instructor in order that proper material for the investigation may be provided.

Zoology and Veterinary Science.

Dr. Lewis
Mr. Mulvania

It is the purpose of the work offered in this department to give the student not only a general training in the branches offered in the sophomore and junior years, but by special work and electives in the senior year to give thorough training in the practical problems of biology. The work in veterinary science is intended more especially for students of agriculture, and is planned with the idea of giving thorough and practical information regarding the diseases of domestic animals. An outline of the work follows.

1. **PHYSIOLOGY.** The fall term of the freshman year is devoted to instruction in elementary physiology by lectures, text book, and models. Required of all freshmen.

2. **ZOOLOGY.** Required of all students except those in the engineering courses, in the fall term of the sophomore year. The work includes a systematic study of animal life with laboratory work in dissection and classification.

3. **MATERIA MEDICA.** Required of students specializing in biology, in the fall term of the junior year. A study of the origin and history of drugs, their physiological and therapeutic action.

4. **VETERINARY MEDICINE.** Winter term of the junior year, for specializing students only. A study of the most common diseases of domestic animals, including those that are contagious, infectious, or that may be communicated to man.

5. **CELLULAR BIOLOGY.** For specializing students, junior year, spring term. A detailed study of the general principles of biology.

6. **EMBRYOLOGY.** For specializing students, senior year, fall term. Lectures on general embryology. A detailed study of

the embryology of the chick, outlined by Foster and Balfour. Each student will be required to mount a series of microscopic slides as a part of the work.

7. BACTERIOLOGY. Required of all except engineering students, senior year, winter and spring terms. This is a general course in bacteriology, and students are required to be thoroughly familiar with laboratory methods. This work is carried on in connection with histology and pathology during the same terms, making a thorough study of bacteria as the cause of disease, and their effect on the animal organism. Pathology is required only of specializing students.

German and Latin.

Professor Tucker

The courses in German and Latin run through the freshman, sophomore, and junior years of the college. All courses leading to a degree include a certain amount of one or the other of these languages. This amount can be ascertained by reference to the detailed schedules. One of the main objects of the courses is to give the student such a knowledge of German and Latin as will be of practical value to him in the study of the sciences. Throughout each course the technical relation of the language to the work of the institution is pointed out, explained, and emphasized. At the same time the other objects of language study are not neglected: the study of the language in and for itself, as a means of general culture, and as a prerequisite to a more intelligent and more comprehensive study of the vernacular. The student is therefore drilled thoroughly in the underlying principles, encouraged to make frequent comparisons, and led to look not only from his own into the foreign language but from the foreign into his own. The courses in detail are as follows:

GERMAN. Freshman class.—The work of this year is devoted to a thorough drill in pronunciation, the mastery of the forms and inflections of the various parts of speech, the study of such rules of syntax as can be introduced in a course of one year, and the reading of such elementary German as will bridge the space between German for Americans and German for Germans.

Regular exercises in translation from English to German are also required. Text books: Harris's German Lessons; Guerber, *Maerchen und Erzaehlungen I and II*; Carmen Sylva, *Aus meinem Koenigreich*. (Class meets three times per week throughout the year.)

Sophomore class.—The work of this year is practically a continuation of that of the freshman year. A broader, more thorough, and more systematic study of grammar is taken up; larger and more varied texts are read and criticised in class. The composition work consists of written exercises handed in to the teacher and corrected by him. Text books: Benedix, *Der Prozess*; Storm, *Immensee*; Stern, *Geschichten vom Rhein*; Baumbach, *Der Schwiegersohn*; Joynes-Meissner's German Grammar. (Class meets three times a week throughout session.)

Junior class—It is the aim of this course to broaden the student's vocabulary and knowledge of the language and literature by copious reading from standard German authors and by the study of German literature under the guidance of a suitable manual. The composition work is continued and one term of this year is devoted to the study of scientific German. Text books: Hoffman, *Historische Erzaehlungen*; Lessing, *Minna von Barnhelm*; Schiller, *Wilhelm Tell*; Dippold's Scientific German Reader; Hosmer's German Literature. (Class meets three times a week throughout session.)

LATIN. Freshman class—This class is employed mainly in mastering the forms of nouns, pronouns, verbs, adjectives, and adverbs, and in acquiring a copious vocabulary. The elementary rules of syntax are also studied and carefully explained. Careful attention is given to the translation of English into Latin and to the translation of such Latin as the time will permit. Text books: Collar and Daniell's First Latin Book; Brittain's Introduction to Cæsar. (Class meets three times a week throughout the session.)

Sophomore class—The work of this year is devoted to the study of Latin prose and the more difficult principles of Latin syntax. The selections for reading are supplemented by notes and grammatical references by the teacher. It is the purpose

of these notes to assist in *accurate* translation, as well as to enable the student to see for himself the practical application of the rules of grammar. Weekly exercises in composition. Text books: Cæsar, *Books I, II, and V*; Cicero, *Letters*; Allen and Greenough's Grammar; Moulton and Collar's Latin Composition.

Junior class—The work of this class is along the same lines as that of the preceding year, with more special reference to Latin poetry, and to the principles of prosody and versification. Throughout all the courses an attempt is made to secure a high degree of mental training, as well as to teach Latin as an invaluable aid to the study of English. Text books: Cicero, *Orations I and II*; Vergil, *Books I-III*; Horace, *Odes and Satires*; Moulton's Exercises in Latin Syntax; Allen and Greenough's Grammar; Wilkin's Primer of Latin Literature.

History and Political Economy.

Professor Hutto

In the department of history and political economy there are offered English history, political economy, constitutional law, sociology, the laws of business, political and industrial history of the United States, general history, and psychology.

1. ENGLISH HISTORY. This subject is taught in the sophomore year during the winter term and is designed to prepare the student for a clearer view of English literature and his further study of American history and forms of government. Text book used is by D. H. Montgomery, "Leading Facts of English History."

2. POLITICAL ECONOMY. Junior year, fall term. The nature and laws of wealth, labor, capital, money, credit, taxation, production, and distribution are taught with special reference to the industrial arts.

3. CONSTITUTIONAL LAW. Junior year, winter term. The text book used is by William W. Crane and Bernard Moses, "An Introduction to the Study of Comparative Constitutional Law".

4. SOCIOLOGY. Junior year, spring term. The student is taught the origin and scope of society; the natural history of a

society; social anatomy; social psychology, and the different suggestions of reform. The text book is by Small and Vincent, "An Introduction to the Study of Society."

5. LAW. Senior year, fall term. This study is carried through the full term with recitations twice a week. The subjects considered are covered in a course of lectures, twenty-eight in number, and give from a business standpoint the nature of contracts, sales, negotiable paper, interest, agency, partnership, bailment, common carriers, real estate, and the forms of business paper.

6. POLITICAL AND INDUSTRIAL HISTORY OF THE UNITED STATES. Senior year, winter and spring terms. The history of the United States is studied in the preparatory department or in other schools; but it is thought that a more philosophical view of the subject should be afforded the student when he reaches maturer years. This study is carried through the full term, the class reciting three times a week. The text book used is by D. H. Montgomery, "Leading Facts of American History".

7. GENERAL HISTORY. This subject is carried through the winter and spring terms of the senior year. After a general view of oriental civilizations, with special reference to those which noticeably affected subsequent conditions in Europe, special attention is given to Grecian and Roman history. The period of the middle ages is then taken up, followed by a study of modern history. It is the constant thought to have the student see something more in this subject than unrelated facts and dates—to trace causes and results, and to get at the story of the development of the race.

8. PSYCHOLOGY. This subject is carried through the winter and spring terms of the senior year, the student reciting twice a week. While the student is invited to discuss such prominent theories as double consciousness, mental evolution in man, hallucination, hypnotism, genius, etc., he is constantly drilled in the practical rules for the proper development of the perceptive faculty, the cultivation of imagination and memory, and the proper direction of the emotions and the will. Text book is by Reuben Post Halleck, "Psychology and Psychic Culture."

Domestic Economy.

Miss Gardiner

The purpose of introducing the study of domestic economy into the college course is to afford a training in the special subjects which must be considered in the arrangement and management of every home. The best provision for the material wants of the household can be made only by those who have been trained for this work; and such a training is not only practical from a utilitarian point of view, but is educative in the best sense. It is believed that by the practical and scientific study of home problems young women will come to see more than mere routine in the household duties. The work in this department has been arranged consecutively so that the instruction received one term prepares the student for the next term's work; and the endeavor is to have it all correlated with the work of the other departments. This work is not planned to be given separately from other college studies; it is but one of the many lines of study provided for the young women of the college, and is subject to the usual regulations regarding entrance requirements, examination, and class records. A brief outline of the work planned for the coming year follows.

1. SEWING. Freshman year, fall term. The student receives instruction in the elements of sewing, including different stitches, seams, hems, darning, etc., and the different fibers and fabrics—their preparation and manufacture. Order, neatness, and care of material are insisted upon.

2. SEWING. Freshman year, winter term. The work in sewing is continued and consists of drafting, cutting, and making plain garments, underwear, shirt waists, and cotton dresses; use of sewing machines.

3. COOKING. Freshman year, spring term. The first term's work in cooking consists of practical work in the preparation of the common, simple foods, and a study of the character and composition of food materials. Along with this first food work the study of hygiene is begun, which considers the health of individuals as dependent upon foods, personal cleanliness, and proper habits. The desire is to show how a correct knowledge of the

laws of nature is necessary for the preservation of health and strength.

4. **COOKING.** Sophomore year, winter term. The practical work in cooking is continued this term, and includes the study of food combinations, along with dining room work, marketing, and dietary study; also lectures on laundry work.

5. **COOKING.** Junior year, fall term. During the first half of this term the students are given practical work in the preservation of foods—canning, preserving, pickling, and jelly making. The second half of the term they study home sanitation, invalid cookery, and care of the sick.

6. **SEWING.** Junior year, winter term. The work in the sewing department is resumed this term and the students continue dressmaking. Pattern drafting and dress cutting are taught, and the pupils become thoroughly familiar with a good and reliable dress cutting system. A lined dress is made and due attention is given to the study of form and color.

7. **SEWING AND COOKING.** Junior year, spring term. The first half of this term is given to further practical work in sewing, making of fancy waist, and tailor suit. During the second half of the term the students receive instruction in invalid cookery and care of the sick.

Public Speaking.

This work is given for the present by the President of the college. All sophomores, and all juniors except those in the course in mechanical engineering, are required to take it during the winter term. So far as the work is carried at present the aim is to secure, in as great a degree as is possible, ease and grace of ordinary public expression.

Geology and Mineralogy.

A course in general and economic geology is given in the senior year. As stated on another page (see Professor Holter's statement under "Chemistry") the college is well equipped for practical and scientific work in mineralogy.

Stenography and Typewriting.

Miss Holt

Those desiring to enter this department must be prepared at least to enter the freshman class. Students having a good common school education may finish the course in shorthand in from six to nine months. The length of time required to complete the course depends entirely upon the energy, ability, and previous education of the student. The general requirements of a competent stenographer do not consist simply in the ability to write shorthand. There must be a knowledge of composition, punctuation, capitalization, grammar, spelling, and the proper arrangement of sentences. For this reason we require students before finishing the course to pass a satisfactory examination upon the subjects named above in addition to the regular examination in shorthand.

Typewriting requires from three to six months of steady application to gain a satisfactory speed. Students studying stenography will also be required to learn typewriting.

In addition to the work done in shorthand and typewriting students are drilled in the use of letter press copying, indexing, letter filing, manifolding, neostyling, and copying by means of hektograph ribbon on pads.

For finishing in this department a speed of one hundred words per minute of new and miscellaneous matter from dictation, the same to be read back accurately and promptly, is required. Upon the typewriter the pupil must be able to write thirty words per minute from his shorthand notes, the work to be free from errors.

Printing.

Superintendent Gelder

The printing department occupies quarters in the mechanical building. Such students as desire are given instruction in the art of printing and matters relating thereto free of charge. Two courses are pursued. In one the student is taught the use of the implements or tools used in typography, composition, and imposition, correcting proof, and presses and their workings. The other course embraces instruction in spelling, capitalization, syl-

labication, punctuation, and proof reading. The college and station jobbing work, including catalogues and announcements, is done here, and a monthly publication, *The College Paper*, is issued from the press. Students assist in all this work, and *The College Paper* is a student publication, though speaking officially for the college.

Free-Hand Drawing.

Professor Stevens

Drawing begins in the middle of the fall term of the freshman year and continues until the close of the winter term. Thereafter the young women of the class continue the subject to the end of the year, the young men taking shop work or agriculture or horticulture. In brief, the work is summarized as follows: Pencil drawings in outline from blocks and familiar objects; memory sketches; talks on conventionalism and general expression; perspective drawing of casts in light and shade; copying and dictation.

Preparatory Department.

Professor Stevens
Miss Overstreet

The scope and character of the work in this department are sufficiently indicated in the statement on page 22.

Laboratory and Field Work.

Paramount stress is laid upon the experimental and practical work of the laboratory, and the afternoons are given over to this character of instruction. In agriculture and horticulture, the live stock, the implements of husbandry, the green-house, the forestry plantations, the farm itself with its operations, constitute the laboratory. In mechanical engineering, the wood working shops, machine shops, electrical shops, foundry, and blacksmith shops are in operation for practical work by the students. In chemistry, the quantitative and qualitative laboratories are occupied by students practically every afternoon throughout the academic year. In botany and entomology the afternoon work

is devoted to examination, analysis, and classification under the microscope. In zoology and comparative anatomy, practical work is given in the afternoon in connection with living, mounted, and unmounted subjects and with models. In bacteriology the laboratory work is devoted to the identification of bacteria, the action of disinfectants, the growing of colonies, the examination of substances for bacteria, etc. Free hand and mechanical drawing, book-keeping, and surveying are also given in the afternoon.

GENERAL INFORMATION**LOCATION**

The seat of the Agricultural and Mechanical College is Stillwater, in Payne county, a town of four thousand people, most beautifully and healthfully situated. It is on the line of the Oklahoma Eastern branch of the Atchison, Topeka, and Santa Fe railroad.

**MORAL
INFLUENCE**

All the leading churches are represented in Stillwater and the students are encouraged to attend and participate in their services. As a matter of fact, the young people's societies of these several churches are sustained very largely by students from the college. A Young Men's Christian Association has been organized and is actively engaged in the numerous and beneficial lines of work characteristic of this organization among students. It is hoped that a Young Women's Christian Association may be organized with the opening of another academic year.

**BOARD
AND ROOMS**

Board with room in private families can be obtained for \$2.50 to \$3.00 per week. Furnished rooms \$1.50 to \$3.00 per month, if two occupy the room. A considerable portion of the students board in students' clubs, thus reducing expenses in that line to \$2.00 to \$2.25 per week. A men's club house and dormitory is now in operation.

**OTHER
EXPENSES**

Tuition is free. An incidental fee of one dollar per term is charged students entering from Oklahoma and Indian Territories. A fee of five dollars per term is charged students under twenty-one years of age entering from elsewhere. Text books are sparingly used and will cost from \$3.00 to \$5.00 per term. Special students in stenography and typewriting are charged \$2.00 per term for use of typewriter. A deposit of \$2.00 per term is required of all students in the sophomore class in chemistry to cover laboratory breakage.

LIBRARY

The use of the college library is free to all students. Every department of the college is largely represented in it, and it contains, besides, numerous reference books, and the principal home and foreign periodicals. Students are

permitted to consult freely, in the reading room, the reference books and periodicals, and to take to their rooms all other books under proper restrictions.

LITERARY AND OTHER SOCIETIES Two literary societies, one composed of young men and women, the other of young women alone, hold weekly meetings. The Chemistry Association, the Biological Club, and the Mechanical Engineering Society, are organizations of special students in the lines indicated, for supplementary work. The Athletic Association has charge of all local college sports, Field Day exercises (April 22), and of the interests of the institution in the inter-collegiate meets. The Oratorical Association has charge of the representation of this college in the preliminary and inter-collegiate oratorical contests.

ATHLETICS Increasing interest is noted in athletic sports, and this interest is deliberately fostered and encouraged by the authorities. Special benefit to the individual student is noted in connection with the general sports which culminate in the annual inter-collegiate meets. Nearly all of the young men of the college show in their physical condition the salutary influence of this training and of the regular and temperate habits of living that must accompany it. Basketball and tennis are participated in by the young women, but it is hoped that suitable gymnasium facilities will be available for them at an early day.

SELF HELP The operations of the college farm and experiment station are carried on very largely by student labor, for which reasonable remuneration is allowed. This, in connection with other positions about the college buildings and grounds, and such opportunities as are afforded in the city, has enabled a very considerable number of students practically to make their way through the course. Many students are thus assisted and encouraged every year—the preference being given to those whose college work is meritorious. It must not be gathered from this that the college engages to afford employment sufficient to enable every worthy young man to complete the course without other resources. With the growth of the institution has come an increased demand for this employment which it is impossible to meet in full.

ROLL OF STUDENTS.

Abbreviations: *Gen. Sc.*, General Science and Literature Course; *Agr.*, Agricultural Course; *Mech.*, Mechanical Engineering Course; *Chem.*, Chemistry Course; *Biol.*, Biological Course.

POST-GRADUATE

Lewis, Arthur Carr (Okla. A. and M. College) Stillwater

SENIORS

Anderson, A. Bondy	<i>Mech.</i>	-	-	Woodward
Carson, Sarah S.	<i>Chem.</i>	-	-	Perkins
Flower, A. Warren	<i>Chem.</i>	-	-	Perry
Hunt, Gertrude	<i>Chem.</i>	-	-	Stillwater
Janeway, George M.	<i>Chem.</i>	-	-	Stillwater
Jones, Charles V.	<i>Gen. Sc.</i>	-	-	Chandler
Kratka, Ralph	<i>Chem.</i>	-	-	Sumner
Lowry, Chester H.	<i>Gen. Sc.</i>	-	-	Stillwater
McReynolds, Samuel A.	<i>Chem.</i>	-	-	Stillwater
Otey, Monroe J.	<i>Biol.</i>	-	-	Perkins
Pigg, Howard F.	<i>Mech.</i>	-	-	Crow Creek, S. Dak.
Rector, Frank L.	<i>Biol.</i>	-	-	Enid
Shively, R. Rex	<i>Chem.</i>	-	-	Stillwater
Smeltzer, Charles E.	<i>Chem.</i>	-	-	Iola, Kan.
Thornberry, Wallace T.	<i>Mech.</i>	-	-	Cleo
Walker, Ethel V.	<i>Gen. Sc.</i>	-	-	Stillwater
Walker, Belle	<i>Chem.</i>	-	-	Stillwater
Woodson, Marion M.	<i>Gen. Sc.</i>	-	-	Hobart

JUNIORS

Gulick, Horace S.	<i>Chem.</i>	-	-	Sac and Fox
Hall, Frank D.	<i>Gen. Sc.</i>	-	-	Stillwater
Hoover, George W.	<i>Chem.</i>	-	-	Cedron, O.
House, Richard M.	<i>Mech.</i>	-	-	Sac and Fox
Houston, Mamie G.	<i>Gen. Sc.</i>	-	-	Stillwater
Hurst, Nina B.	<i>Gen. Sc.</i>	-	-	Stillwater
Jarrell, Mary	<i>Gen. Sc.</i>	-	-	Stillwater
Jones, Edward L.	<i>Mech.</i>	-	-	Houston, Tex.
Kenyon, Ransom S	<i>Mech.</i>	-	-	Ponca City
Kerr, Robert H.	<i>Chem.</i>	-	-	Stillwater
Kinder, William E.	<i>Gen. Sc.</i>	-	-	Stillwater
Lincoln, Henry J.	<i>Mech.</i>	-	-	Stillwater
McBride, Henry F.	<i>Mech.</i>	-	-	Tryon
Miller, Maud I.	<i>Gen. Sc.</i>	-	-	Stillwater

Morrow, Charles E.	-	<i>Mech.</i>	-	-	Topeka, Kan.
Morrow, Jessie E.	-	<i>Chem.</i>	-	-	Topeka, Kan.
Nelson, Cyrus W.	-	<i>Chem.</i>	-	-	Stillwater
Nelson, Lila	-	<i>Chem.</i>	-	-	Stillwater
Nelson, Stella	-	<i>Chem.</i>	-	-	Stillwater
Neilsen, Mary A.	-	<i>Chem.</i>	-	-	- Perry
North, Esther A.	-	<i>Chem.</i>	-	-	Stillwater
Pray, Walter C.	-	<i>Gen. Sc.</i>	-	-	Waukomis
Preston, Carney O.	-	<i>Agr.</i>	-	-	Kingfisher
Robinson, Abbott G.	-	<i>Gen. Sc.</i>	-	-	Glencoe
Ruble, Bertha M.	-	<i>Gen. Sc.</i>	-	-	Iola, Kan.
Slaybaugh, Joseph O.	-	<i>Chem.</i>	-	-	West Point
Walker, Florence K.	-	<i>Gen. Sc.</i>	-	-	Stillwater

SOPHOMORES

Abernathy, Eugene C.	-	<i>Gen. Sc.</i>	-	-	St Joseph, Tex.
Adams, Frank	-	<i>Gen. Sc.</i>	-	-	- Jennings
Amos, William G.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Amos, Ethel	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Atkinson, George F.	-	<i>Mech.</i>	-	-	Bedford, Ia.
Bellis, Edward A.	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Bowers, Renzo D.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Crume, George M.	-	<i>Agr.</i>	-	-	- Partridge
Denkewalter, Otto P.	-	<i>Mech.</i>	-	-	Spencer, Ind.
Donart, Eda L.	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Durham, Samuel B.	-	<i>Agr.</i>	-	-	Stillwater
Epperson, Wallace A.	-	<i>Agr.</i>	-	-	Love, Colo.
Gilbert, J. Carlton	-	<i>Agr.</i>	-	-	Stillwater
Guynn, Porter N.	-	<i>Mech.</i>	-	-	- Stillwater
Hamblin, Clyde M.	-	<i>Mech.</i>	-	-	Newkirk
Holmes, Pearl V.	-	<i>Gen. Sc.</i>	-	-	- Orlando
Kidd, John W.	-	<i>Mech.</i>	-	-	- Stroud
Knauss, Hester M.	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Lovett, Amos E.	-	<i>Mech.</i>	-	-	Hunter
Marple, Verne	-	<i>Gen. Sc.</i>	-	-	- Jennings
Martin, Fred F.	-	<i>Chem.</i>	-	-	- Tryon
McBride, John F.	-	<i>Mech.</i>	-	-	- Stillwater
McCartney, Fred W.	-	<i>Agr.</i>	-	-	Stillwater
McPheeters, Martha R.	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Morgan, Bernice	-	<i>Gen. Sc.</i>	-	-	Stillwater
Nelson, Abbie L.	-	<i>Gen. Sc.</i>	-	-	- Stillwater
Northup, Marian E.	-	<i>Gen. Sc.</i>	-	-	Cuba, Kan.
Parker, Eva G.	-	<i>Gen. Sc.</i>	-	-	- Cleveland
Roberson, Santford I.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Rogers, Ola J.	-	<i>Chem.</i>	-	-	- Cleveland
Rudkins, William J.	-	<i>Mech.</i>	-	-	Blackwell]

Rush, Walter S.	-	<i>Mech.</i>	-	-	-	Guthrie
Stevens, Harry I.	-	<i>Mech.</i>	-	-	-	Clifton
Sutton, Virgil L.	-	<i>Agr.</i>	-	-	-	Stillwater
Tankersley, M. Lola		<i>Gen. Sc.</i>	-	-	-	Stillwater
Tarr, W. Arthur	-	<i>Mech.</i>	-	-	-	Lawton
Thatcher, Hester A.		<i>Gen. Sc.</i>	-	-	-	Stillwater
Thornberry, Joseph W.		<i>Mech.</i>	-	-	-	Cleo
Thoroughman, Maud E.		<i>Gen. Sc.</i>	-	-	-	Perkins
Treeman, Fred D.	-	<i>Agr.</i>	-	-	-	Perry
Treeman, Ralph W.		<i>Agr.</i>	-	-	-	Perry
Walker, Faye	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Watkins, Michael A.		<i>Agr.</i>	-	-	-	Enid
Wattson, Robert K.	-	<i>Mech.</i>	-	-	-	El Reno
Whitten, Harry C.	-	<i>Chem.</i>	-	-	-	Jennings
Wikle, George F.	-	<i>Mech.</i>	-	-	-	Orlando
Wilson, Oliver S.	-	<i>Chem.</i>	-	-	-	Effingham, Kan.
Withers, Alpheus C.	-	<i>Chem.</i>	-	-	-	Stillwater
Woodworth, James E.		<i>Agr.</i>	-	-	-	Perry

FRESHMEN

Blue, Frank R.	-	<i>Mech.</i>	-	-	-	Cushing
Blue, Edna G.	-	<i>Gen. Sc.</i>	-	-	-	Cushing
Bras, A. C.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Bras, Orlando D.	-	<i>Agr.</i>	-	-	-	Stillwater
Burke, William J.	-	<i>Mech.</i>	-	-	-	Perry
Burke, Marian	-	<i>Gen. Sc.</i>	-	-	-	Perry
Burnett, Roy	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Butts, Robin R.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Butts, Hallie M.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Carr, Anna B.	-	<i>Gen. Sc.</i>	-	-	-	Paradise
Clapham, Bert	-	<i>Mech.</i>	-	-	-	Hackberry
*Cooke, Nettle F.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Creed, Mattie E.	-	<i>Gen. Sc.</i>	-	-	-	Skedee
Cross, Francis D.	-	<i>Chem.</i>	-	-	-	Stillwater
Cullison, James B. Jr.		<i>Mech.</i>	-	-	-	Enid
Dalton, Clarence G.	-	<i>Chem.</i>	-	-	-	Stillwater
Douglas, Reed E.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Ellis, Horace B.	-	<i>Gen. Sc.</i>	-	-	-	Perry
Ellis, Lula A.	-	<i>Gen. Sc.</i>	-	-	-	Perry
Gelder, John F.	-	<i>Gen. Sc.</i>	-	-	-	El Reno
Hall, Grace M.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Hall, Howard W.	-	<i>Biol.</i>	-	-	-	Stillwater
Hartenbower, Cleveland		<i>Agr.</i>	-	-	-	Orlando
Hert, Erastus R.	-	<i>Gen. Sc.</i>	-	-	-	Perkins
Holmes, Otis W.	-	<i>Gen. Sc.</i>	-	-	-	Stillwater
Hughes, Charles H.	-	<i>Gen. Sc.</i>	-	-	-	Shawnee

James, Ona L.	-	<i>Gen. Sc.</i>	-	-	White City, Kan.
Janeway, Lucile E.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Johston, John C.	-	<i>Gen. Sc.</i>	-	-	Lawton
Jones, Olin W.	-	<i>Gen. Sc.</i>	-	-	Mangum
Knauss, Elmer J.	-	<i>Gen. Sc.</i>	-	-	Stillwater
LaGourgue, Carl R.	-	<i>Gen. Sc.</i>	-	-	Odell, Neb.
Lessert, Joseph	-	<i>Agr.</i>	-	-	Stillwater
Mayginness, Alpha	-	<i>Gen. Sc.</i>	-	-	Stillwater
McBride, Robert J.	-	<i>Gen. Sc.</i>	-	-	Stillwater
McBride, Earl A.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Meeks, Vida M.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Millhouse, A. Bert	-	<i>Agr.</i>	-	-	Stillwater
Morgan, Hiram	-	<i>Agr.</i>	-	-	Stillwater
Mosely, Thomas W.	-	<i>Gen. Sc.</i>	-	-	Watonga
Murphy, Edward M.	-	<i>Chem.</i>	-	-	Stillwater
Nelson, Arthur G.	-	<i>Chem.</i>	-	-	Stillwater
Nelson, Everett	-	<i>Mech.</i>	-	-	Perry
Nelson, John	-	<i>Gen. Sc.</i>	-	-	Stillwater
Olentine, Georgia	-	<i>Gen. Sc.</i>	-	-	Stillwater
Orrick, Roscoe C.	-	<i>Agr.</i>	-	-	Lawton
Otey, Edith S.	-	<i>Gen. Sc.</i>	-	-	Perkins
Pound, Frank S.	-	<i>Mech.</i>	-	-	Bingham, Mo.
Randall, Adrian	-	<i>Chem.</i>	-	-	Stillwater
Robertson, Allen O.	-	<i>Mech.</i>	-	-	Kansas City, Mo.
Smiley, Clara D.	-	<i>Gen. Sc.</i>	-	-	Ralston
Smith, Karl	-	<i>Chem.</i>	-	-	Stillwater
Snyder, Guy	-	<i>Mech.</i>	-	-	Kildare
Spalding, Isaac	-	<i>Gen. Sc.</i>	-	-	North Enid
Spalding, John A.	-	<i>Gen. Sc.</i>	-	-	North Enid
Speer, Alfred R.	-	<i>Gen. Sc.</i>	-	-	Ceres
Stephens, Cecil C.	-	<i>Agr.</i>	-	-	Yale
Stevenson, Frank	-	<i>Gen. Sc.</i>	-	-	Stillwater
Tarr, George G.	-	<i>Agr.</i>	-	-	Hobart
Thomason, Frank	-	<i>Gen. Sc.</i>	-	-	Chandler
Ulrey, Walter O.	-	<i>Mech.</i>	-	-	South Whitley, Ind.
Van Eman, Maggie L.	-	<i>Gen. Sc.</i>	-	-	Jennings
Wikle, Bessie L.	-	<i>Gen. Sc.</i>	-	-	Orlando
Wiley, Raymond C.	-	<i>Chem.</i>	-	-	Stillwater
Williams, Guy P.	-	<i>Mech.</i>	-	-	Meban
Williams, Arthur D.	-	<i>Gen. Sc.</i>	-	-	Stillwater
Winsworth, Merton L.	-	<i>Chem.</i>	-	-	Demot, Kan.
Woods, Lloyd L.	-	<i>Agr.</i>	-	-	Stillwater

SHORT COURSE STUDENTS

Aupperle, Samuel A.	-	-	-	-	Kildare
Bones, Norman T.	-	-	-	-	Marion, Ill.

Chaffee, George T.	-	-	-	-	-	Stillwater
Craine, Henry M.	-	-	-	-	-	Tonkawa
Croy, S. Stanley	-	-	-	-	-	Yukon
Ellison, Phillip A.	-	-	-	-	-	Guthrie
Greathouse, Furman	-	-	-	-	-	Woodward
Jueschke, Frank	-	-	-	-	-	Kingfisher
Ladusau, Charles	-	-	-	-	-	Garber
Lessert, Joseph	-	-	-	-	-	Stillwater
Nachtegall, Paul	-	-	-	-	-	Excelsior
Parker, James	-	-	-	-	-	Tecumseh
Pierce, Alva L.	-	-	-	-	-	Stillwater
Rogers, John B.	-	-	-	-	-	Ponca City
Ruzicka, Josef J.	-	-	-	-	-	- Dent
Thomas, H. O.	-	-	-	-	-	Tonkawa
Wallace, Jesse E.	-	-	-	-	-	Stillwater
Wallace, John M.	-	-	-	-	-	Stillwater
Wieland, Edmund W.	-	-	-	-	-	Stillwater
Young, Charles W.	-	-	-	-	-	Stillwater

SPECIAL STUDENTS

Amos, Cora M.	-	-	-	-	-	Stillwater
Anderson, Esther H.	-	-	-	-	-	Warren
Annis, Frank	-	-	-	-	-	Stillwater
Baker, Mattie B.	-	-	-	-	-	Stillwater
Barnes, George G.	-	-	-	-	-	Oklahoma City
Blair, H. Lola	-	-	-	-	-	Stillwater
Brown, Carrie D.	-	-	-	-	-	- Goff
Brown, John J.	-	-	-	-	-	Enid
Burns, Burness	-	-	-	-	-	Stillwater
Canavan, Nell	-	-	-	-	-	Morrison
Carlisle, Ray M.	-	-	-	-	-	Crystal
Clark, Daisy A.	-	-	-	-	-	Stillwater
Comstock, William	-	-	-	-	-	Idaho Springs, Colo.
Creed, Monnie G.	-	-	-	-	-	Skedee
Custer, Harry L.	-	-	-	-	-	Tryon
Darnell, Nelle V.	-	-	-	-	-	Stillwater
Drennan, William A.	-	-	-	-	-	- Eden
Edgerton, Charles O.	-	-	-	-	-	Stillwater
Edwards, Alice	-	-	-	-	-	Stillwater
Evans, May	-	-	-	-	-	Eden
Flanagan, Maggie A.	-	-	-	-	-	Stillwater
Gragg, Lone W.	-	-	-	-	-	Huron, Kan.
Harder, Ocas E.	-	-	-	-	-	McLoud
Hastings, John I.	-	-	-	-	-	Stillwater
Hastings, Alice A.	-	-	-	-	-	Stillwater
Hastings, Louis B.	-	-	-	-	-	Stillwater

Hoefer, Lawrence B.	-	-	-	-	-	Kildare
Houston, Edith	-	-	-	-	-	Stillwater
Hughes, Jesse O.	-	-	-	-	-	Shawnee
Janeway, Adah D.	-	-	-	-	-	Stillwater
Jenkins, Alice E.	-	-	-	-	-	Kansas City, Kan.
Lahman, Marion	-	-	-	-	-	Stillwater
Levick, Lottie O.	-	-	-	-	-	Ralston
Lewis, Carrie E.	-	-	-	-	-	Yates
Limle, Leona M.	-	-	-	-	-	Stillwater
Lytton, Zella M.	-	-	-	-	-	Stillwater
Lytton, Alice	-	-	-	-	-	Stillwater
Malone, John S.	-	-	-	-	-	Stillwater
Marquis, Jennie B.	-	-	-	-	-	Stillwater
McClain, Laura M.	-	-	-	-	-	Stillwater
McCormick, Minnie M.	-	-	-	-	-	Stillwater
McMichael, M. Nellie	-	-	-	-	-	Blackwell
Meeks, Alice	-	-	-	-	-	Stillwater
Melton, Nettie	-	-	-	-	-	Stillwater
Miller, Estella	-	-	-	-	-	Stillwater
Metcalfe, Lyda M.	-	-	-	-	-	Stillwater
Mulvania, Maurice	-	-	-	-	-	Stillwater
Mulvania, Eunice	-	-	-	-	-	Stillwater
Ney, Myrtle M.	-	-	-	-	-	Warren
Northup, Elsie	-	-	-	-	-	Stillwater
O'Howell, Annie	-	-	-	-	-	Stillwater
Smith, Fred I.	-	-	-	-	-	Perry
Sollars, Marie B.	-	-	-	-	-	Stillwater
Stephens, Grace G.	-	-	-	-	-	Cashion
Stewart, Bert	-	-	-	-	-	Sabetha, Kan.
Summers, Albert J.	-	-	-	-	-	Kildare
Sutton, Carrie M.	-	-	-	-	-	Stillwater
Talmage, Lewis E.	-	-	-	-	-	Yukon
Terwilliger, Bertha E.	-	-	-	-	-	Perkins
Thatcher, Jessie O.	-	-	-	-	-	Stillwater
Tolford, Grace B.	-	-	-	-	-	Stillwater
Walker, Velma	-	-	-	-	-	Stillwater
Walker, Veda R.	-	-	-	-	-	Stillwater
Ward, Merit W.	-	-	-	-	-	Kildare
Wells, Mable E.	-	-	-	-	-	Stillwater
Williams, Mrs. Virtes	-	-	-	-	-	Stillwater
Yates, Hattie D.	-	-	-	-	-	Stillwater
Zellar, M. Pearl	-	-	-	-	-	Stillwater

PREPARATORY STUDENTS

Abrams, Bert J.	-	-	-	-	-	Guthrie
Amos, Edith P.	-	-	-	-	-	Stillwater

Anderson, Rex E.	-	-	-	-	Woodward
Atkinson, Mary B.	-	-	-	-	Bedford, Iowa
Baggett, Anna	-	-	-	-	Glencoe
Bellis, Clara M.	-	-	-	-	Stillwater
Blue, Riley J.	-	-	-	-	Cushing
Bohannon, Lawrence	-	-	-	-	Lawton
Bontty, Archibald S. B.	-	-	-	-	Dent
Boyd, Mack H.	-	-	-	-	Stillwater
Briggs, Nellie M.	-	-	-	-	Stillwater
Briggs, Ray	-	-	-	-	Stillwater
Brown, Charles W.	-	-	-	-	Belmont
Bryant, Loris E.	-	-	-	-	Ralston
Burkholder, Ethel	-	-	-	-	Jennings
Burkholder, Mabel	-	-	-	-	Jennings
Burris, Zach T.	-	-	-	-	Otego
Calkins, Wayne F.	-	-	-	-	Stillwater
Calkins, Wiley D.	-	-	-	-	Stillwater
Canady, Elwood	-	-	-	-	Wichita, Kan.
Carmer, Gertrude	-	-	-	-	Hennessey
Chambers, Thomas J.	-	-	-	-	Arapahoe
Chaney, Deda E.	-	-	-	-	Stillwater
Clark, Arthur	-	-	-	-	Stillwater
Clark, Elijah W.	-	-	-	-	Stillwater
Comstock, Erank	-	-	-	-	Idaho Springs, Colo.
Collins, J. Edwin	-	-	-	-	Lewisburg, Tenn.
Cotrell, Elsie A.	-	-	-	-	Morrison
Cox, Ernest J.	-	-	-	-	Tryon
Crooks, Charles W.	-	-	-	-	Ingalls
Cross, Dana W.	-	-	-	-	Stillwater
Crume, Edith M.	-	-	-	-	Partridge
Crume, J. Matthew	-	-	-	-	Partridge
Curry, Jesse F.	-	-	-	-	Stillwater
Dalton, Lela M.	-	-	-	-	Stillwater
Daugherty, Sina A.	-	-	-	-	Stillwater
Daugherty, Arthur A.	-	-	-	-	Stillwater
Demaree, Florence A.	-	-	-	-	Stillwater
Dixon, Inez E.	-	-	-	-	Tryon
Dunkle, Annie	-	-	-	-	Hennessey
Dunkle, Arthur C.	-	-	-	-	Hennessey
Dunkle, Fannie I.	-	-	-	-	Hennessey
Durham, May S.	-	-	-	-	Stillwater
Dysart, Elmo C.	-	-	-	-	Stillwater
Eberle, Dovie V.	-	-	-	-	Glencoe
Earnest, Edgar E.	-	-	-	-	Youst
Evans, D. Estella	-	-	-	-	Eden
Fairchild, Henry L.	-	-	-	-	Marena

Flynn, Edward F.	-	-	-	-	-	Stillwater
Flynn, J. Carl	-	-	-	-	-	Stillwater
Foley, Buena V.	-	-	-	-	-	- Glencoe
Fritch, Lee	-	-	-	-	-	Cushing
Fritch, Bert	-	-	-	-	-	- Cushing
Galbreath, Sherman E.	-	-	-	-	-	Woodward
Guernsey, Herman V.	-	-	-	-	-	Cheyenne
Gwynn, James J.	-	-	-	-	-	Stillwater
Hagan, Cornell E.	-	-	-	-	-	Stillwater
Hainline, Grace,	-	-	-	-	-	- Odessa, Mo.
Hamon, Fannie E.	-	-	-	-	-	- Pawnee
Hamon, Benjamin F.	-	-	-	-	-	- Pawnee
Hamon, Chester A.	-	-	-	-	-	- Pawnee
Harrison, Ruby F.	-	-	-	-	-	Stillwater
Hedges, Lewis E.	-	-	-	-	-	- Crystal
Henderson, Retta C.	-	-	-	-	-	- Ingalls
Henry, Denny D.	-	-	-	-	-	- Shawnee
Hetherington, William E.	-	-	-	-	-	Morrison
Hetherington, Edna C.	-	-	-	-	-	Stillwater
Hillerman, Earl	-	-	-	-	-	Stillwater
Hinson, William H.	-	-	-	-	-	Marshall
Hollister, Alta	-	-	-	-	-	Norcat, Kan.
Holmes, O. Wendell	-	-	-	-	-	Orlando
Holmes, David L.	-	-	-	-	-	Orlando
Horttor, Omer L.	-	-	-	-	-	Lexington
Houska, Joseph C.	-	-	-	-	-	Kremlin
Houston, Louretta E.	-	-	-	-	-	Stillwater
Hueston, Forrest D.	-	-	-	-	-	Stillwater
Hurst, Charity I.	-	-	-	-	-	Stillwater
Johnston, Letha M.	-	-	-	-	-	Stillwater
Johnson, William L.	-	-	-	-	-	- Orlando
Johnson, Seymour	-	-	-	-	-	Stillwater
Johnston, Lena L.	-	-	-	-	-	Stillwater
Jones, Hattie S.	-	-	-	-	-	Stillwater
Jordon Homer E.	-	-	-	-	-	Lena, Kan.
Keithly, Alva G.	-	-	-	-	-	Bridgeport
Kerr, Hope	-	-	-	-	-	Stillwater
Kerr, Jay	-	-	-	-	-	Stillwater
Kimble, T. Iva	-	-	-	-	-	Stillwater
Kirkpatrick, Eva M.	-	-	-	-	-	Stillwater
Knauss, Lulu M.	-	-	-	-	-	Stillwater
Land, Susie E.	-	-	-	-	-	Stillwater
Land, John T.	-	-	-	-	-	Stillwater
Laughlin, Loyola O.	-	-	-	-	-	Glencoe
Laughlin, Nora L.	-	-	-	-	-	Glencoe
Leder, Frank,	-	-	-	-	-	Dent

Lee, Samuel W.	-	-	-	-	-	-	Polo
Lemon, E. Leigh	-	-	-	-	-	-	Otoe
Lemon, Arthur M.	-	-	-	-	-	-	Otoe
Lessert, Walter	-	-	-	-	-	-	Stillwater
Lewis, Lloyd W.	-	-	-	-	-	-	Stillwater
Llewellyn, Elwood	-	-	-	-	-	-	Stillwater
Lowry, Orlo C	-	-	-	-	-	-	Stillwater
McElroy, Clarence H.	-	-	-	-	-	-	Jennings
McKee, Walter	-	-	-	-	-	-	Stillwater
McPheeters, Nellie H.	-	-	-	-	-	-	Stillwater
McPheeters, William H.	-	-	-	-	-	-	Stillwater
McPeeeters, Marguerite I.	-	-	-	-	-	-	Stillwater
Meserole, Guy A.	-	-	-	-	-	-	Waukomis
Metcalfe, Agnes	-	-	-	-	-	-	Stillwater
Miles, James G	-	-	-	-	-	-	Stillwater
Miller, Cora B.	-	-	-	-	-	-	Cleveland
Miller, Bertha	-	-	-	-	-	-	Stillwater
Morhain, John W.	-	-	-	-	-	-	Blackburn
Mowery, Julia	-	-	-	-	-	-	Ingalls
Murphy, John M.	-	-	-	-	-	-	Stillwater
Newcomb, Bonnie E.	-	-	-	-	-	-	Stillwater
Nevin, Kate E.	-	-	-	-	-	-	Sapulpa, I. T.
Nevin, Asa R.	-	-	-	-	-	-	Sapulpa, I. T.
Nickell, John E.	-	-	-	-	-	-	Lexington
Niday, Eugene	-	-	-	-	-	-	Orlando
Noah, Robert H.	-	-	-	-	-	-	West Point
North, Lew J.	-	-	-	-	-	-	Stillwater
O'Keefe, Nora	-	-	-	-	-	-	Ingalls
Olsen, Ernest G.	-	-	-	-	-	-	Pawnee
Olsen, Roy W.	-	-	-	-	-	-	Pawnee
O'Malley, Charles F.	-	-	-	-	-	-	Clyde, Mo.
Osburn, Lawrence V.	-	-	-	-	-	-	Sumner
Oschman, Hattie	-	-	-	-	-	-	Stillwater
Painter, Samuel	-	-	-	-	-	-	Skeleton
Pennington, Jesse M.	-	-	-	-	-	-	Glencoe
Pennington, Walter	-	-	-	-	-	-	Glencoe
Peteet, John T.	-	-	-	-	-	-	Stillwater
Peyton, Grover R.	-	-	-	-	-	-	Stillwater
Pickerill, Lola	-	-	-	-	-	-	Ingalls
Pierce, Alva L.	-	-	-	-	-	-	Stillwater
Pierce, Etta B.	-	-	-	-	-	-	Stillwater
Powers, Nora	-	-	-	-	-	-	Stillwater
Randall, Lettie G.	-	-	-	-	-	-	Stillwater
Ringer, Irving W.	-	-	-	-	-	-	Ralston
Roberson, Howard D.	-	-	-	-	-	-	Stillwater
Roberts, Eldon E.	-	-	-	-	-	-	Seven Oaks

Roberts, Elmer E.	-	-	-	-	-	Seven Oaks
Ruble, Ella G.	-	-	-	-	-	Iola, Kan.
Ruppenthal, George H.	-	-	-	-	-	Milan
Ruzicka, Josef J.	-	-	-	-	-	Dent
Scribbins, John A.	-	-	-	-	-	Guthrie
Scribbins, M. Louisa	-	-	-	-	-	Guthrie
Scribbins, Abbie J.	-	-	-	-	-	Guthrie
Scribbins, Pearl	-	-	-	-	-	Guthrie
Selph, Harry H.	-	-	-	-	-	Stillwater
Selph, Ernest J.	-	-	-	-	-	Stillwater
Shisler, Emerson S.	-	-	-	-	-	Blackburn
Shisler, Grace	-	-	-	-	-	Blackburn
Shook, Bertha E.	-	-	-	-	-	Cushing
Shorb, Noble M.	-	-	-	-	-	Stillwater
Soper, James	-	-	-	-	-	Garber
Smart, Nellie L.	-	-	-	-	-	Stillwater
Smith, Ansil E.	-	-	-	-	-	Stillwater
Stees, Harry A.	-	-	-	-	-	Stillwater
Stephens, William R.	-	-	-	-	-	- Yale
Stevens, Ruth E.	-	-	-	-	-	- Clifton
Stipp, Mamie E.	-	-	-	-	-	Woodward
Suits, Robert E.	-	-	-	-	-	- Guthrie
Templeton, Florence L.	-	-	-	-	-	Ripley
Testerman, Laura	-	-	-	-	-	Stillwater
Testerman, Lucile M.	-	-	-	-	-	Stillwater
Tinker, Maggie	-	-	-	-	-	Stillwater
Vlasak, Joseph C.	-	-	-	-	-	Dent
Wallace, Jesse E.	-	-	-	-	-	Stillwater
Wallace, John M.	-	-	-	-	-	Stillwater
Wallace, William F.	-	-	-	-	-	Stillwater
Wallace, Lillian	-	-	-	-	-	Okeene
*Walters, John	-	-	-	-	-	- Luther
Wantland, Roy	-	-	-	-	-	Stillwater
Warner, J. Willis	-	-	-	-	-	Blackburn
Wells, Archibald S.	-	-	-	-	-	Stillwater
West, Maude E.	-	-	-	-	-	Stillwater
Whetston, Coila S.	-	-	-	-	-	Ripley
White, Harry	-	-	-	-	-	Tryon
Whitely, Harry L.	-	-	-	-	-	Guthrie
Wiar, Pearl	-	-	-	-	-	Stillwater
Williams, Emma J.	-	-	-	-	-	Carney
Williams, Buel H.	-	-	-	-	-	Stillwater
Wilson, James	-	-	-	-	-	Garber
Wisner, Kenton J.	-	-	-	-	-	Stillwater
Wright, Charles S.	-	-	-	-	-	Pawnee

*Deceased.

Wright, Lizzie J.	-	-	-	-	-	McKinley
Wright, Andrew H.	-	-	-	-	-	McKinley
Znamenack, Edward	-	-	-	-	-	Glencoe

<i>Total</i>	-	-	-	-	440
<i>Repeated</i>	-	-	-	-	5
<i>Net Total</i>	-	-	-	-	435

ALUMNI.**1896**

Arthur W. Adams, Merchant	-	Colorado City, Colo.
J. Homer Adams, Principal of High School	-	Stillwater, Okla.
Frank E. Duck, Farmer	-	Stillwater, Okla.
A. Edward Jarrell, Lumber Salesman	-	Boulder, Colo.
Ervin G. Lewis, Bank Cashier	-	Ramona, I. T.
Oscar M. Morris, Horticulturist, College	-	Stillwater, Okla.

1897

George W. Bowers, Railroad Service	-	Neodesha, Kan.
Andrew N. Caudell, Entomologist Ag. Dept.	-	Washington, D. C.
Jessie O. Thatcher, Teacher City Schools	-	Stillwater, Okla.

1898

John T. Clark, Government Educational Service	-	Manila, P. I.
Augustus G. Ford, Ass't Dep't Chemistry	-	State College, Pa.
Norris T. Gilbert, Bank Cashier	-	Wetumka, I. T.
Thomas J. Hartman, Bank Cashier	-	Deer Creek, Okla.
Clinton Morris, Chemist, Iron Foundry	-	Ensley, Ala.
Emma H. (Swope) Dolde, At Home	-	Stillwater, Okla.
Blanche M. Wise, Teacher	-	Ingalls, Okla.

1899

Noah P. Bullock, Lumber Salesman	-	Stillwater, Okla.
Clarence R. Donart, Bank Clerk	-	Stillwater, Okla.
Minnie A. (Dysart) Teter, At Home	-	Ripley, Okla.
Francis M. Greiner, Chemist, Wall Paper	-	Manufactory
Cora A. Miltimore, Ass't Librarian, College	-	Rochester, N. Y.
S. Earl Myers, Book Salesman	-	Stillwater, Okla.
Arthur B. McReynolds, Ass't Chemist Ex. Sta.	-	Perry, Okla.
Charles E. Regnier, Bank Cashier	-	Stillwater, Okla.
	-	Okmulgee, I. T.

1900

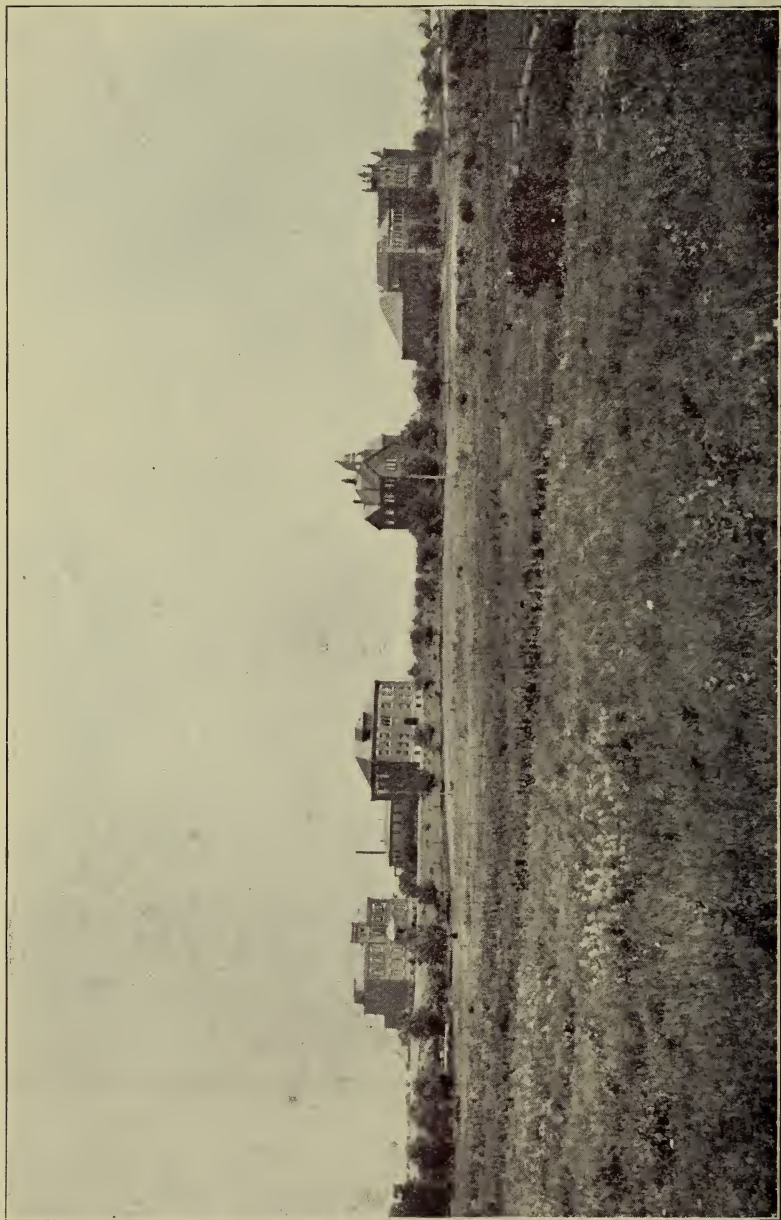
Arthur W. Anderson, Lawyer	-	Woodward, Okla.
Cora M. Donart, Teacher	-	Stillwater, Okla.
Thomas T. Goff, Merchant	-	Pawnee, Okla.

John S. Malone, Ass't in Agr., College	Stillwater, Okla.
Louis C. Miller, Division of Forestry	Washington, D. C.
George W. Stiles, Jr., Bureau of An. Ind.	Washington, D. C.

1901

R. Bradford Hurst	- - -	Whitewater, Colo.
Kate A. Jewitt, At Home	- - -	Udall, Kan.
Charles L. Kezer, County Superintendent		Stillwater, Okla.
Arthur C. Lewis, Ass't Dep't Botany, College		Stillwater, Okla.
Velma Walker, Special Work, College		Stillwater, Okla.

VIEWS



COLLEGE CAMPUS—FROM THE SOUTHWEST



LIBRARY HALL



READING ROOM



SHORT COURSE CLASS IN MECHANICS



SHORT COURSE CLASS IN AGRICULTURE—STOCK—JUDGING



SEWING ROOM



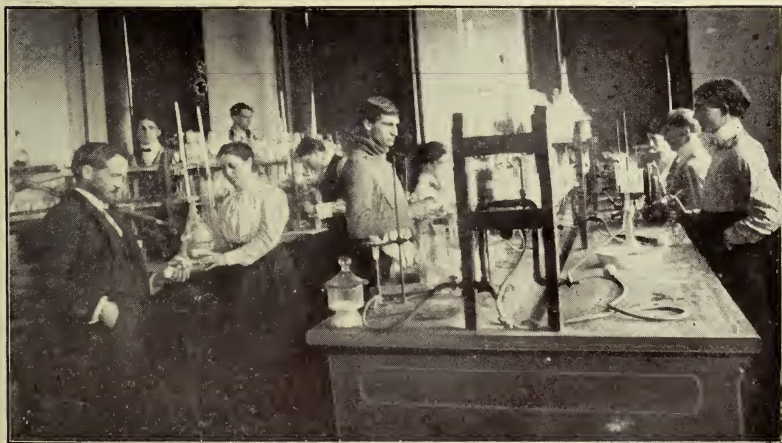
A CLASS IN COOKING



QUALITATIVE LABORATORY



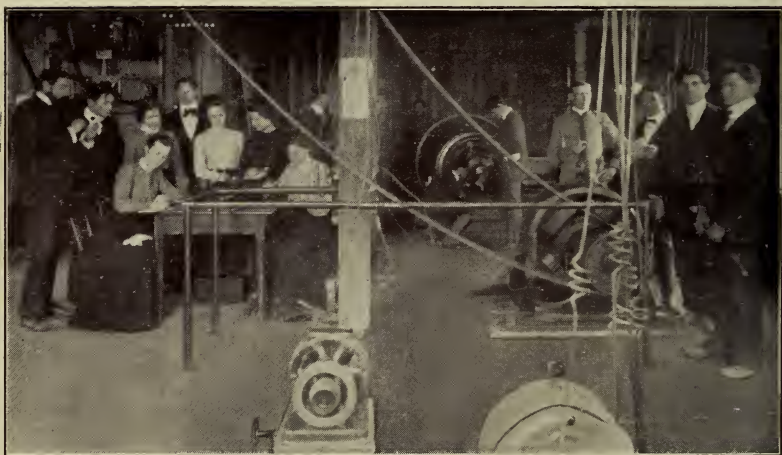
QUANTITATIVE LABORATORY



SENIOR LABORATORY—DEPARTMENT OF CHEMISTRY



DINING ROOM—DEPARTMENT OF DOMESTIC ECONOMY



ELECTRICAL LABORATORY—SECTION OF JUNIOR CLASS



MACHINE SHOP



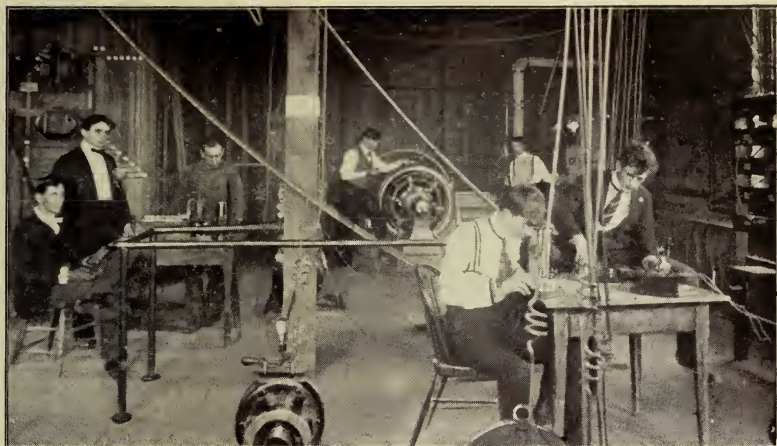
FOUNDRY WORK



ZOOLOGICAL LABORATORY



BOTANIC GARDEN



ELECTRICAL LABORATORY—SECTION OF SENIOR CLASS



A CLASS IN WOOD-WORKING



A CLASS IN SURVEYING



STATION LABORATORY—DEPARTMENT OF VETERINARY SCIENCE



THE COLLEGE BARN



LAKE AND CAMPUS



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